

INDEX

Sixty-second Quarto Volume—January 1, 1917, to June 30, 1917.

AUTHORS

Acworth, W. M., 1033
Affleck, B. F., 1225
Aishton, R. H., 1046
Alfrey, H. H., 1155
Allen, C. Frank, 442
Angier, F. J., 1489
Armstrong, A. H., 1143

Barker, R. S., 1471
Batchelder, A. F., 13
Beeuwkes, R., 642
Begien, R. N., 437
Bell, J. Snowden, 256
Belnap, Hiram W., 101
Benjamin, C. H., 1150
Biddle, W. B., 1047
Boardman, Francis, 616
Bousfield, J. H. A., 395
Bradley, E. E., 640
Bremner, William H., 1050
Brown, H. B., 1056
Buell, D. C., 234, 848, 945
Bunger, W. O., 1483
Burns, T. J., 1039
Bury, George, 997

Chamberlin, E. J., 1112
Cheatham, B. F., 1412
Clark, T. C., 773
Clausen, L. R., 730
Claveille, Albert, 1138
Clough, A. M., 1141
Coss, J. L., 174, 442, 988
County, A. J., 355
Crawford, D. F., 1406
Curtis, D. C., 946

Daniels, Winthrop M., 19
Dean, W. E., 1005
De Groot, E. H. Jr., 174
Delano, Frederic A., 87
Dewson, E. H., 615
Dickinson, J. M., 1045
Dietrick, J. A., 1180
Dixon, George D., 26
Dodgson, Frank L., 1424
Donnelly, Charles, 1237
Dorney, Joseph, 960
Duffy, John, 624
Dunn, H. H., 407
Dunn, Samuel O., 601

Ecker, Frederick H., 1108
Elliott, Howard, 992, 1145

Forman, Harry W., 86, 1193
Fowler, George L., 173, 359, 615

Glenn, John M., 1202
Gordon, Wilbur, 128
Goss, O. P. M., 7²³
Griggs, H. W., 1471
Grime, E. M., 1139
Groghegan, J. T., 733

Hale, Arthur, 1053
Hand, George F., 896
Harahan, W. J., 996
Harrison, Fairfax, 996, 1092, 1267, 1474
Hatt, W. K., 440
Hawkins, W. P., 1054
Hine, Charles, 1306
Hobbs, George S., 995
Hobbs, W. S., 1180
Hopkins, J. H., 21
Hulme, Thomas W., 323
Humphrey, A. L., 1341
Hustis, J. H., 994

Isaacs, John D., 1086

James, Charles C., 99, 733
Johnson, L. E., 995

Keefe, W. B., 1470
Knowles, C. R., 740
Kruttschnitt, Julius, 699, 1047

Lancaster, W. C., 999
Landon, W. G., 773
Lane, Francis W., 687
Leigh, E. B., 5
Lemmerich, Gustave E., 86
Lisman, F. J., 128, 301
Loree, L. F., 992
Loudon, Andrew C., 635
Lovett, R. S., 617
Lucore, F. M., 1134
Lyndon, George W., 278

McAuliffe, Eugene, 932
McCowan, A., 319
McKnight, T. H. B., 1477
McVeigh, E. J., 25
Mackie, J. F., 1425
Metcalf, F. M., 1326
Moderswell, C. M., 1101
Moore, John F., 1280
Moore, Lewis E., 300, 616, 732
Morse, G. A., 440
Morse, W. C., 344
Murphy, Anson, 317

Nelson, James P., 1133
Newell, C. E., 343
Nichols, Bessie W., 1141
Nicoles, K. M., 773

Orrock, J. W., 551
Ottarson, A. P., 49

Parks, Chas. E., 1141
Parmelee, Julius H., 901
Patenall, F. P., 988
Patterson, George Stuart, 1236
Payne, J. L., 181, 734, 887, 953

Peterson, Sir William, 604
Porterfield, J. F., 233
Post, George A., 87
Potts, T. S., 21
Poultney, E. Cecil, 1471
Powell, T. C., 1086

Queenan, William, 1012
Quinn, C. H., 641

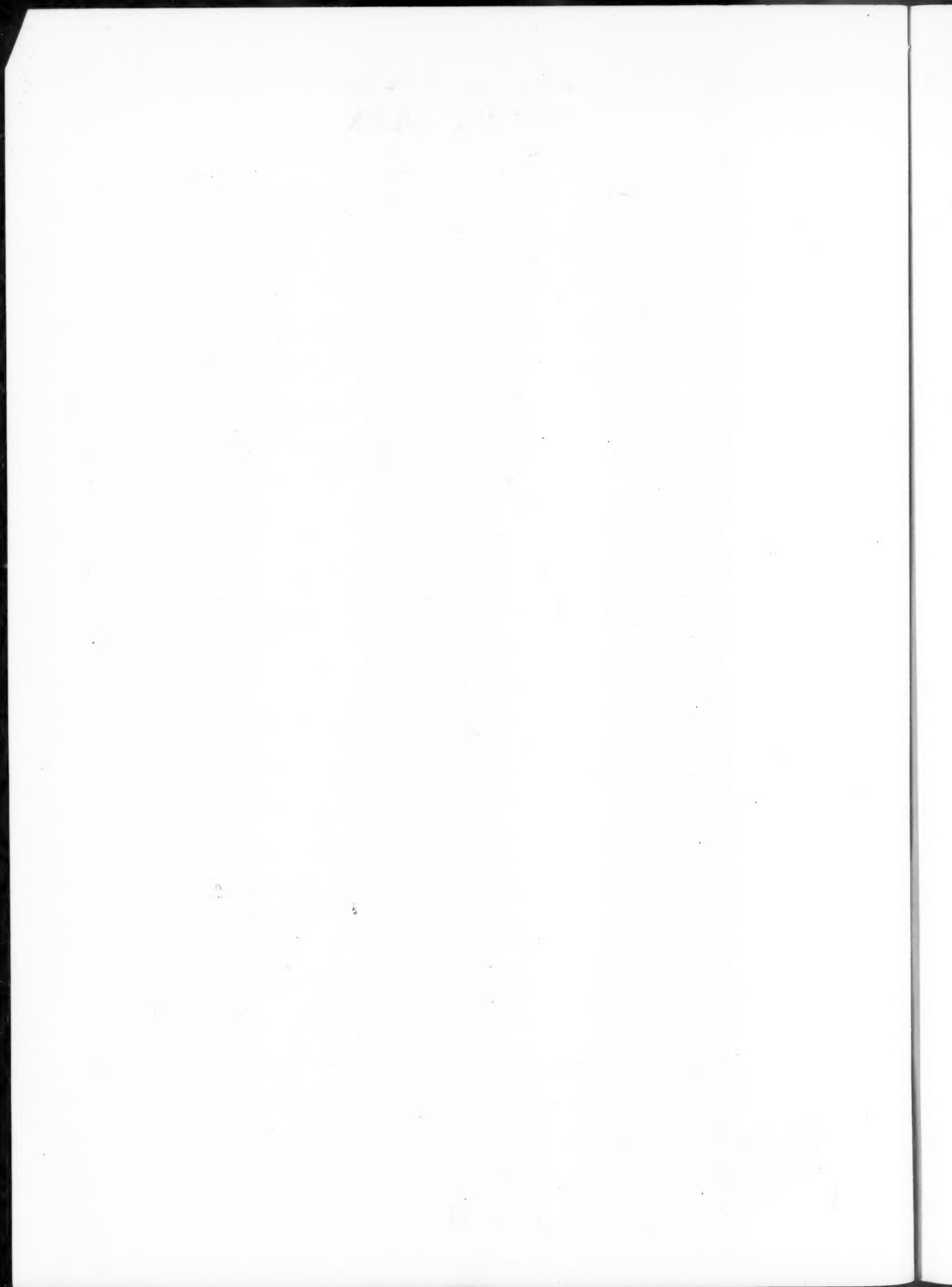
Rambo, Charles N., 940
Raymond, Wm. G., 302, 438
Rea, Samuel, 705, 990
Richardson, C. P., 735
Riggs, H. E., 441
Ryan, T. T., 48

Schellens, E. L., 47
Schmidt, E. C., 407
Scott, W. R., 302
Seley, C. A., 691
Sheafe, J. S., 302
Sillcox, Lewis K., 368
Simmer, M. A., 1401
Simonds, Frank H., 784
Slifer, Hiram J., 1105
Smart, A. G., 1404
Smith, A. H., 991
Steinmetz, W. R., 306
Stevens, Thos. S., 1180
Stokes, E. C., 1108
Stone, Warren S., 1094
Storey, W. B., 1406
Stuntz, H. L., 615
Sugimoto, Y., 17
Sullivan, J. G., 731, 932
Summerhays, W. A., 390

Thatcher, C. W., 1085
Thelen, Max, 349
Thom, Alfred P., 91
Thompson, A. W., 994
Thompson, Sanford E., 357
Thornton, Henry W., 1271
Thornton, William H., 599
Townsend, J. F., 616
Turner, Walter V., 709
Tye, William F., 309

Underwood, F. D., 993

Walker, Roberts, 17
Warfield, S. Davies, 1107, 1206
Warrick, F. R., 1088
Watts, W. E., 6
Weston, A. H., 48
White, E. R., 6
Whitenton, W. M., 1405
Willard, Daniel, 1011, 1307
Winfield, Edwin, 1403
Winslow, Carlisle P., 150
Wolcomb, Harvey De Witt, 50
Wollner, William S., 1422



GENERAL INDEX

[Illustrated articles are indicated thus *; Editorials thus †; Letters to Editor thus ‡.]

A

Acar Manufacturing Company: Blue Signal Safety Device, 1494*

Accident (See also Safety First):
Buffer Cars for Passenger Trains, 615†
Chicago, Burlington & Quincy near Cromwell, Iowa, 240
Cincinnati, Hamilton & Dayton at Lima, Ohio, 370
Derailments Due to Defective Equipment, 1012
Explosion at Black Tom, Report on, 754
I. C. C. Bulletin No. 60, 272; No. 61, 1057, 1080†
Monthly Summaries: December, 108; January, 399; February, 948; March, 1144; April, 1247
Northern Pacific Preventive Work, 1012
Pennsylvania at Bristol, Pa., 371, 463
Pennsylvania at Mount Union, Pa., 371, 385†, 404*, 459, 615†, 730†, 988†, 1030†, 1056
Record for 1916, 1080†
Reid-Newfoundland Railroad, near Glenwood, N. F., 287
Trespassing in War Time, 816†, 1130†
Western Maryland at Knobmount, 3†

Accounting (See also Association of Transportation and Car Accounting Officers; also Valuation):
Clearing House for Inter-Railway Accounts, 1468†, 1477
Depreciation—The Hen and the Erie Ferry Boat, 99, 301†, 733†
Fiscal Year Change and the State Commissions, 111
Labor Saving Machines, 1457
Revision of Billing at Large Terminals, 49
Aeworth, W. M.: Government Ownership in Foreign Countries, 1033
Adamson Law (See Legislation)

Advertisement:
Car Loading, Heavier, 1221†
Farming and Regulation, 459
Labor Controversy, 14
War Loans, European, 816†, 835*

Advisory Commission (See National Defense)

Aerotherm Engine Company: Portable Gas Engine, 682*

A. G. A. Railway Light & Signal Company:
Crossing Signal, Flash-Light, 1061*

Agriculture (See also Railway Development Association):
Farmers and the Railroads, 47†, 459
Food Problem Tackled, 884, 961, 984†, 1018, 1019, 1376*, 1467†
Long Island Food Train, 1067
Weed Killing Chemicals, 557*, 679*

Air Brake (See Brake)

Air Brake Association: Annual Convention, 1005*, 1020

Alabama Great Southern: Safety Medal, Harri-man Memorial, 753

Alaska: I. C. C. Investigation of Rates, Practices, etc., 1255

Alaska Northern:
Construction Progress, 828*
Eight-Hour Day Enforced, 816†
Alfred, Frank H., 840*

Ambulance Trains Since the Civil War, 1439*

American Association of Railroad Superintendents: Subjects for 1917 Convention, 262, 298†

American Association of Traveling Passenger Agents: Selling Passenger Service, 26

American Car & Foundry Company:
Cars, Steel Passenger; C. B. & O., 315*
Coaches and Baggage Cars; D. & H., 217*

American Concrete Institute: Annual Convention, 269, 357

American Electric Railway Association: Liberty Loan Plans, 1198

American Gear Manufacturers' Association Organized, 754

American Iron & Steel Institute:
Rail Production in 1916, 936
Track Materials Produced in 1916, 1138

American Locomotive Company:
Madrid, Zaragoza & Alicante Locomotives, 785*
War Locomotives, 1456*

American McKenna Process Company: Rails, Rerolling of, 1161*

American Railway Association:
Annual Dinner, 503
Car Mileage Statistics, 127†, 145*
Car Service Commission with Plenary Powers, 241
Car Service Rules, New, 188, 374, 449, 802, 910, 928†, 951, 988†, 1134†, 1352
Car Shortage Figures, 115, 125†, 326, 650, 683†, 717, 909, 926†, 1208, 1222†, 1467†, 1496
Car Situation, 312, 353, 449
Car Supply Investigation of the I. C. C., 15, 126†, 135, 241
Car Surpluses and Shortages, 1907-1916, 240*

American Railway Association (Continued):

Demurrage Rates, New, 757, 796
Meeting Postponed, 871†
Special Committee on National Defense, 285, 308, 409, 434†, 769†, 777*, 817†, 824, 845*, 985†, 1267*, 1321*
Standard Code, 3†, 5†

American Railway Engineering Association:
Address of President Baldwin, 515†, 518*
Annual Dinner, 599*
Committees, New—Railway Operation, and Economics of Maintenance of Way Labor, 873†
Election of Officers, 605*, 659†
Proceedings, 515†, 516†, 518*, 566*, 661*
Registration, 515†, 554, 565, 606, 660, 678
Report on Ballast, 578*
Report on Buildings, 593*
Report on Conservation of Natural Resources, 549*
Report on Economics of Railway Location, 563†, 594*
Report on Electricity, 535*
Report on Grading of Lumber, 660†, 667*
Report on Iron and Steel Structures, 673*
Report on Masonry, 659†, 661*
Report on Rail 544*
Report on Records and Accounts, 596*
Report on Roadway, 564†, 588*
Report on Rules and Organization, 659†, 677*
Report on Signals and Interlocking, 522*
Report on Signs, Fences and Crossings, 516†, 525*
Report on Stresses in Railroad Track, 550*
Report on Ties, 563†, 574*
Report on Track, 566*
Report on Uniform General Contract Forms, 576*
Report on Water Service, 529*
Report on Wooden Bridges and Trestles, 516†, 538*
Report on Wood Preservation, 671*
Report on Yards and Terminals, 583*, 792
Resistance of Passenger Train Equipment, 407*

Test, All-Ingot, for Steel Rails, 896

American Railway Master Mechanics' Association:
Exhibitors at June Convention, 413, 801
Mechanical Associations, Closer Co-operation for, 926†
Mechanical Engineers at June Convention, 767†, 872†

American Society of Mechanical Engineers: Design of Electric Locomotives, 13

American Steel Foundries: Annual Report, 473

American Telephone & Telegraph Company:
Wire Facilities Mobilized for War Purposes, 1419

American Water Works Association: Sale of City Water to Railroads, 740

American Wood Preservers' Association: Annual Meeting, 149, 170†

Annual Reports (See names of companies; also Interstate Commerce Commission)

Apprentice (See Education)

Arbitration (See Employee—Wages)

Arizona Eastern: Car, Automobile Inspection, 1476*

Army (See National Defense; also War)

Associated Business Papers: Second Class Mail Rates, Proposed Increase in, 1†, 31, 281, 987†

Association of American Railway Accounting Officers:
Clearing House for Inter-Railway Accounts, 1468†, 1477
Fiscal Year Change and the State Commissions, 111

Association of Railway Telegraph Superintendents: Meeting at Chicago, 881

Association of Transportation and Car Accounting Officers: Meeting at Atlanta, 11

Associations, Railway, in War, 1176†

Atchison, Topeka & Santa Fe:
Breaks-In-Two for 1916, 900
Car, Stock, 1151*
Car, Tie, 749*
Coal Plant, Pulverized, at Marceline, Mo., 237*
Construction of Line Between Oceanside and Temecula—Order of California R. R. Commission, 162
Timber Protection Methods, 7*

Athletics (See Employee)

Atlanta, Birmingham & Atlantic: Valuation Hearings Before the I. C. C., 171†, 193, 212†, 225, 645, 747

Atlantic Coast Line: Signals, Highway Crossing, 1040*

Automatic Stop (See Signaling)

Automobile:
Car, Inspection: Arizona Eastern, 1476*
Duty of Drivers at Crossings, 216†, 245
Traffic Solicitors; B. R. & P., 287
Truck Scales; B. & O., 1239*
Unloading from Gondola Cars, 1156*

B

Bache Review: War Taxation Bill, 1061

Baldridge Rail Contour Recorder, 609*

Baldwin Locomotive Works:
Annual Report, 381
Engines for Use at the Front, 1383*
Pacific and Santa Fe Types; L. V., 897*
Triplex Type; Virginian Ry., 141*

Ballast (See Maintenance of Way)

Baltimore & Ohio:
Car, Medical, 1250
Damage Suit Won, 871†
Employees in War Time, 1306
Engineers as General Managers, 727†
Farm Labor Bureau, 802
Fire Prevention Department, 110
Food Problem, Posters on, 1380*
Instructions to Passenger Conductors, 212†, 224
Pier, Coal, at Curtis Bay, 1226*
Protecting Property, 1446*
Safety First Bureau's Report for 1916, 852
"Safety-First" for Soldier Guards, 1019, 1446*
Scales, Auto Truck, 1239*
Timber Preservation Department, 1489
Western Union Telegraph Company, Contract with, 326
Women Employees, 963, 1066*, 1163, 1407*
Baltimore & Ohio Southwestern: "Flagwoman," Miss Marie Travers a, 1062*

Barney & Smith Car Company: Coaches; D. & H., 217*

Battery (See Signaling)

Bearings:
Journal Friction, Tests on, 560*
Self-Centering Roller Side, 196*
Side Bearing Location, 368*

Bell (See Signaling)

Betta, E. E.: Car, Combination Stock and Coal, 450*

Biddle, William B., 109*

Bill (See Legislation)

Billing (See Freight)

Blaw Steel Construction Company: Bucket, Excavating, 608*

Boiler (See Locomotive)

Bonus (See Employee)

Boston & Maine: Passenger Service, Reductions in, 1159

Brake (See also Air Brake Association):
Hose, Life of, 319, 1008
Rigging Foundation, 709*

Breaks-In-Two (See Train Handling)

Bremner, William H., 1050*

Brick Arch (See Locomotive)

Bridges and Buildings (See also Construction, New):
Bridge Renewals Under Abnormal Conditions, 1434*
Burlington Bridge at Kansas City, 1180*
Hell Gate Bridge, 453*, 727†
Insulating Rails on Trough Floor of Harlem River Bridge; N. Y. C., 616†
Interstate Commerce Commission's New Office Building, 1099
Mississippi River Bridge; C. St. P. M. & O., 51*
New York Central Bridge at Castleton, 192, 1205
Pennsylvania Bridge at Manayunk, Pa., 883*
Poughkeepsie Bridge, Reinforcing the, 455
Report of A. R. E. A. on, 516†, 538*, 593*
Union Pacific Bridge at Omaha, 95*
Warehouse, Terminal, in Cleveland, 1482*

Britain (See England)

Brown, E. N., 839*

Bucket (See Hoisting and Conveying)

Buffalo, Rochester & Pittsburgh:
Annual Report, 388†, 428
Automobiles for Traffic Solicitors, 287
Liberty Loan Committees, 1198
Scrap, Breaking, 844*

Bureau of Explosives: Report for 1916, 738, 754

Bureau of Foreign and Domestic Commerce: Investigation of Transportation Facilities Abroad, 411

Bureau of Railway Economics:
Monthly Reports of Freight Operation, 1394
Revenues and Expenses for Calendar Year 1916, 649
Revenues and Expenses for October, 154; November, 326; December, 649; January, 768†, 800; February, 927†, 962; March, 1164; April, 1496
Statistics for Fiscal Year 1916, 253†, 262
Trainmen's Earnings in 1916, 454

Bureau of Railway News and Statistics:
Capital for New Construction in 1916, 308
Rate Increases Throughout the World, 1110

Bury, George: American Railways in the War, 981†, 997

Business (See Finance; also Public, The Railways' Relations with)

GENERAL INDEX—Continued

[Illustrated articles are indicated thus *; Editorials thus †; Letters to Editor thus ‡.]

- C**
- Camps, Army, Location of, 1339*
- Canada:
- Annual Railway Statement, 1497
 - Car Loading, Heavier, 1291
 - Consolidation of Railroads Proposed, 309, 734‡, 872‡
 - Equipment Built for Europe, 1463*
 - Government Ownership Results, 172‡, 181
 - Officers of the A. R. E. Association, 659†
 - Passenger Service, Reductions in, 1460
 - Peterson, Sir William, on "Sister Democracies," 604*
 - Rail Production in 1916, 1138, 1360
 - Rails for France, 1112, 1498
 - Report on the Railways for 1916, 887
 - Reports of the Royal Commission, 953, 957, 985‡, 1081‡, 1112
 - War and the Railways, 1299*
- Canadian Industrial Disputes Act: Investigation of, 754
- Canadian Northern:
- Electrification at Montreal, 981‡, 999*
 - Report of the Royal Commission, 953, 957
- Canadian Pacific:
- Annual Report, 820‡*, 868
 - Hospital Cars, 1443*
 - Lamp, Standard, 18*
 - Signs, Track, 551*
 - Tunnel, Connaught, 273*
- Canadian Railway Club:
- Chilled Iron Car Wheel, The, 278
 - Scrap or Salvage, 25
- Canadian Railway Construction Corps, 1300
- Canadian Society of Civil Engineers: Consolidation of Canadian Railroads, 309
- Capital (See Finance)
- Car:
- Armored, Italian, 939*, 1374*
 - Buffer Cars for Passenger Trains, 615‡
 - Coaches, All-Steel; C. B. & O., 315*
 - Coaches, All-Steel; Erie, 1472*
 - Coaches and Baggage Cars; D. & H., 217*, 411
 - Dining; Erie, 950*
 - Dumper (See Hoisting and Conveying)
 - Engineering Methods in Construction, 41†
 - Fire Extinguishers on Passenger Cars, 21
 - Gear, Foundation, 709*
 - Hand Car with Power Top, 65*
 - Hose, Life of, 319
 - Hospital, 1439*
 - Inspection, Automobile; Arizona Eastern, 1476*
 - Inspection, Nichols, 682*
 - Inspectors, Selection and Training of, 101
 - Mileage (See Car Service)
 - Motor (See Motor Cars)
 - Multiple-Unit; C. N., 1002*
 - Orders in 1916, 28
 - Orders in 1917, 297‡, 1031‡, 1463*
 - Repairs Vital, 1429*
 - Step, Extension Coach, 325*
 - Truck (See Truck)
 - "Wagonette" Lunch Service; S. P., 838*
 - Wheel, Chilled Iron, 278
 - Wooden vs. Steel, 1467‡, 1492
- Car Foremen's Association of Chicago:
- Breaks-In-Two, Reducing; A. T. & S. Fe., 900
- Derailments Due to Defective Equipment, 1012
- Side Bearing Location, 368*
 - Train Line Maintenance, 319
- Car, Freight:
- American and Canadian Built Cars for European Countries, 1463*
 - Betts Combination Stock and Coal Car, 450*
 - Box, Long; No. Pacific, 1246*
 - Capacity and Loading per Loaded Car, Average, 1283*
 - Committee on Freight Car Thrift of the Railway Business Association, 1116
 - Hopper; Pennsylvania, 391*
 - Lubrication in Interchange, 1039
 - Refrigerator; Pennsylvania, 179*
 - Reporting Marks, 174‡
 - Shortage (See Car Service)
 - Shutter, Ventilating, 190*
 - Side Baring Location, 368*
 - Sill Construction, 48‡
 - Statistics Show Increased Efficiency, 127‡, 145*
 - Stock, Double-Deck; A. T. & S. Fe., 1151*
 - Stock, Wooden; I. C., 1356*
 - Tie; A. T. & S. Fe., 749*
 - Wooden Equipment, Construction of, 1356*
- Car, Passenger (See Car)
- Car Service (See also Commission on):
- Car Equalization Plan, 339‡, 362
 - Car Equipment Trust of America, 1085‡
 - Car Supply and Car Mileage, 1907 to 1916, 127‡, 145*
 - Centralization of Car Distribution, 1088‡
 - Committee on Freight Car Thrift, 1116
 - Conservation, Car, a Patriotic Duty, 1175†
 - Conservation of Equipment, Railway Storekeepers' Association on, 624
 - Demurrage, Careful Collection of, 1180‡
 - Demurrage Rates, New, 757, 796
- Car Service (Continued):
- Demurrage, Reciprocal, and Car Shortage, 398
 - Efficiency of Cars, Increasing, 1010
 - Executive Committee's Freight Car Regulations, 928‡, 951, 988‡*, 1134‡, 1351*
 - Interchange, Car, Contest on, 874‡, 1079‡, 1175‡
 - I. C. C. Given Jurisdiction Over Car Service, 222, 347, 1051, 1154
 - Loading:
 - Advertising Heavier, 1221‡
 - Car Service Commission's Campaign, 1438, 1475
 - Car Shortage Would Be Eliminated by Heavier Car Loading, 1282*
 - Contest Papers on, 1401*
 - Lumber, Record for, 458*, 719, 1106*, 1208
 - Pennsylvania's Campaign to Increase, 833*, 1208, 1292
 - Pennsylvania's Record, 1162
 - Southern Pacific Statistics, 33
 - State Commissions' Co-operation, 1438
 - Western Pacific Statistics, 773‡ - Mileage and Car Supply Statistics for 1907-1916, 127‡, 145*
 - Pooling:
 - British Cars, 902, 1356
 - Equalization Plan, 339‡, 362
 - Government Pool of Transportation and Coal Recommended, 1480, 1485, 1498
 - Lake Coal Shipments, 1093
 - Texas Roads, 371 - Recognition of Coal Cars in Illinois, 114, 158
 - Rules, New Code of; A. R. A., 188, 374, 449, 802, 910, 928‡, 951, 988‡*, 1134‡, 1352
 - Rules, Partial Code of; I. C. C., 126‡, 135
 - Shortage, Freight Car:
 - A. R. A. Figures, 115, 125‡, 240*, 326, 650, 683, 717, 909, 926‡, 1208, 1222‡, 1467‡, 1496
 - Coal Rates, 128‡, 298‡, 301‡
 - Daniels, W. M., on, 19
 - Demurrage, Reciprocal, 398†
 - Government to Buy Cars? 1270†
 - Government Terminal Elevators at Seaports, 1087‡
 - I. C. C. Investigation, 15, 126‡, 135, 222, 347
 - Loading, Heavier, Would Eliminate Shortage, 1282*
 - Recriminations Between Railways, 1132†
 - Reduction of, 1467‡, 1496
 - Shipper's Appeal to Shippers, A, 616‡
 - Situation, 241, 287, 312, 331, 332, 347, 353, 371, 373, 374, 449, 616‡, 624, 683‡, 749, 855
 - Ways to Prevent, 302‡ - Story of a Freight Car Diversion, 988‡*
 - Surpluses and Shortages, 1907-1916, 240*
- Car Shortage (See Car Service; also Freight—Congestion)
- Cement (See Concrete)
- Cement-Gun Construction Company: Guncrete for Steel Protection, 558*
- Central Argentine: Sale of Securities to American Syndicate, 82†
- Central New England: Poughkeepsie Bridge Reinforcement, 455
- Central of Georgia:
- Accounting Department Military Aid and Comfort Association, 1250
 - Liquor Transportation, 757
 - Pencils, Misuse of, 412
- Central of New Jersey: Train Schedule from New York to Philadelphia and Proposed War Measures, 982†
- Central Pacific: Southern Pacific and Dissolution Suit of the Government, 651, 683‡, 702
- Central Railway Club:
- Car Inspectors, Selection and Training of, 101
 - Lubrication of Freight Cars in Interchange, 1039
- Chamber of Commerce of the United States: Public Interest in Labor Disputes, 198
- Chesapeake & Ohio:
- Annual Report, 1083‡*, 1122
 - Safety First Work, 459
 - Signal, Hudson Semaphore, 110
- Chicago:
- Coal famine, 115, 158, 233
 - Electrification Problem, 86‡, 126‡
 - Labor, Union, and Improvement Work, 128‡
 - Regiment, Third Reserve Engineers, 1196*, 1277*, 1278
 - Switchmen's Strike Vote, 241, 254†
- Chicago & North Western:
- Annual Report, 770‡*, 810
 - Engines, Transfer, 698*
 - Tickets, Multi-Route Interline, 1148*
- Chicago Association of Commerce: Report on Railroad Regulation, 241
- Chicago Board of Trade:
- Car Situation, 331, 373
 - Griffin, J. P., Complaint of Grain Shipments from Chicago, 1131†
- Chicago, Burlington & Quincy:
- Accident near Cromwell, Iowa, 240
- Chicago, Burlington & Quincy (Continued):
- Bridge at Kansas City, Mo., 1181*
 - Cars, Steel Passenger, 315*
 - Food Problem, Posters on, 1377*
 - Lumber, Resawing of, 946*
 - Relief Department Payments, 1250
 - Shops at West Burlington, 345*
 - Snow-Covered Tracks Cleared by Steam, 286
- Chicago Car Heating Company: Patent Suits, 167
- Chicago Great Western: Insurance, Life, for Employees, 459
- Chicago, Indianapolis & Louisville: Signals, Automatic Block, 834*
- Chicago, Milwaukee & St. Paul:
- Electric Operation, 642
 - Electrification from Othello, Wash., to Pacific Coast, 175*, 962
 - Mississippi River Bridge, 51*
 - Strike of Freight Car Repairmen, 197
- Chicago Pneumatic Tool Company: Annual Report for 1916, 250
- Chicago Railway Equipment Company: Annual Report, 423
- Chicago, Rock Island & Pacific:
- Cribbing Construction, 735*
 - Installation of Conduits in Retaining Walls, 405*
 - Pension Payments, 459
 - Receivership Terminated, 1223‡
- Chicago, St. Paul, Minneapolis & Omaha:
- Annual Report, 769‡*, 812
 - Mississippi River Bridge, 51*
- Chicago Steel Post Company: Fence Posts, 561*
- China: Graft Under Government Ownership, 1221‡, 1246
- Chipman Chemical Company: Weed Killing by Atlas "A" Method, 557*
- Christian Science Monitor: Sanctified Mendacity About Railroads, 1270†
- Cincinnati, Hamilton & Dayton:
- Accident at Lima, Ohio, 370
 - I. C. C. Report on, 891
- Cincinnati Union Station Project, 327
- City Club, Chicago: Remedy for Coal Shortage, A, 233
- Civil War:
- Ambulance Trains, 1439*
 - Military Railways, 1387*
- Claims (See also Association of Railway Claim Agents; also Freight Claim Association):
- Freight Checking System; M. K. & T., 111
 - Freight Containers and Pilferage, 613†
 - Live Stock Claims, Reducing, 174‡
 - Loss and Damage, Watch the, 815†
- Classification (See Freight)
- Clearances (See Legislation; also War)
- Clearing House (See Accounting)
- Clerk (See Employee)
- Cleveland, Cincinnati, Chicago & St. Louis:
- Annual Report, 877‡*, 923
 - Terminal Warehouse at Cleveland, 1482*
- Coach (See Car)
- Coal (See Fuel)
- Cochrane, Hon. Frank: Canadian Railways, Annual Statement of, 1497
- Coleman Railway Supply Company: Bond-Wire Connector, 1493*
- College Men (See Employee)
- Columbia Creosoting Company: Machine for Perforating Ties, 783*
- Commission, Italian War, 1063*
- Commission, Russian, from America, 908, 1012, 1018, 1251, 1448*
- Commission on Car Service:
- Car Shortage Situation, 15, 126‡, 135, 241, 287, 312, 353, 749
 - Heavier Loading Campaign, 1438, 1475
 - Personnel and Work of, 241, 1146
 - Rules, New, 188, 374, 449, 802, 910, 928‡, 951, 988‡*, 1134‡, 1352
 - Work and Organization of, 1351*
- Commission, State (See State Commissions)
- Committee:
- Central and Regional of the Nat. Ind. Traffic League, 1145, 1240
 - Car and Locomotive Builders, 1163
 - Coal Production—Prices Fixed, 1498
 - Freight Car Thrift, 1116
 - Freight Traffic Officers, 717
 - Materials and Supplies, 1361*
 - Military Equipment Standards, 1273*
 - Military Freight Tariffs, 1328*
 - Military Passenger Tariffs, 1330*
 - Military Transportation Accounting, 1329*
 - National Defense District Committees, 1321*
 - Public Information, 1207
 - Shipping, 908, 1052
- Compressor: Gasolene Driven Air, 748*
- Concrete (See also American Concrete Institute):
- Crib Retaining Walls; C. R. I. & P., 735*
 - Fence Post Machine, 610*
 - Guncrete for Steel Protection, 558*
 - Masonry, Report of A. R. E. A. on, 659‡, 661*
 - Mixer, Turntable, 562*
 - Mixing, Pneumatic, Improvements in, 680*
 - Report of Joint Committee, 100
 - Slag as a Concrete Aggregate, 357
 - Tile, Walter Roofing, 562*
 - Conduit (See Signaling)

Conference Committee of the Railways: Address of A. B. Garretson, 1†
 Congestion (See Freight)
 Congress (See Legislation)
 Congressional Joint Committee on Interstate Commerce: Investigation of Government Regulation, 54, 107, 617, 698, 737, 1033
 Connector, Coleman Bond-Wire, 1493*
 Conservation (See National Defense)
 Conservation, Car (See Car Service)
 Conservation of Railway Resources, 1143
 Construction Corps (See also Engineering Regiments): Canadian Railway, 1300
 Construction, New (See also Grade Crossings; also Bridges and Buildings; also Yards and Terminals; also Station):
 Alaska Northern, Progress on the, 828*
 Capital Used in 1916, 308
 Chicago Improvements and Union Labor, 1282
 Conduits Installed in Retaining Walls; C. R. I. & P., 405*
 Cribbing Walls: C. R. I. & P., 735*
 Destruction and Re-construction of Railways in War, 1390*, 1452*
 Grade Separation Problem at Syracuse, 774*
 Location of the Portsmouth & Roanoke, 752
 New York Central Castleton Cut-off Plans, 192, 1205
 New York Central Improvements in New York City, 1205
 New York Connecting Railroads, 453*, 727†, 748*
 Pennsylvania Improvements in Baltimore, 134
 Pennsylvania Track Elevation at Johnstown, 1013*
 Relocating Terminals to Shorten Engine Districts, 982†
 Seaboard Air Line from Hamlet, N. C., to Savannah, Ga., 941*
 War Time Work, 1309*, 1468†
 Container (See Freight)
 Contest:
 Car Interchange, 874†, 1079†, 1175†
 Exhibit of the National Railway Appliances Association, 170†, 340†, 477†, 516†, 564†, 606†, 1139*
 Increasing the Train Load, 171†, 299†, 611†, 1401*
 Conventions (See also names of associations):
 Postponement on Account of War, 871†, 1208
 Correspondence, Washington (See also separate headings), 824
 Cost (See Equipment and Supplies; also Fuel)
 Council of National Defense (See National Defense)
 Coverdale & Colpitts: Report on the Missouri, Kansas & Texas, 255†, 263
 Crane (See Hoisting and Conveying)
 Credit (See Finance)
 Creel, George: Valuation Reports and Reproduction Cost, 254†
 Creosote (See Ties and Timber)
 Cribbing (See Walls)
 Crosshead, Markel, for Fastening Shoes, 196*
 Crossing (See Grade Crossings)
 Cunningham, A. O.: Mattress for Bank Protection; Wabash, 321*
D
 Dallas, Texas: Signaling in the Union Terminal, 279
 Daniels, W. M.: Reappointment to the Interstate Commerce Commission, 44†, 55, 73, 107, 144
 Delano, F. A.: Appointment to the Interstate Commerce Commission, 1469†
 Delaware & Hudson:
 Annual Report, 822†*, 863
 Coaches and Baggage Cars, 217*, 411
 Locomotive, Consolidation, Quickly Repaired, 1370*
 Securities Held Abroad, 697
 Delaware, Lackawanna & Western:
 Annual Report, 435†*
 Dock, Coal, at Buffalo, 185*
 Grade Separation Problem at Syracuse, 774*
 Station at Buffalo, 227*
 Dempsey, J. Edwin: Codes Adopted by National Defense Committee, 1111
 Demurrage (See Car Service)
 Denver & Rio Grande: Pensions for Employees, 1163
 Department (See Organization)
 Depreciation (See Accounting; also Valuation)
 Derailment (See Accident)
 Despatching (See Train Despatching)
 Destruction (See Construction, New)
 Dining Car (See Car)
 Dining Car Service (See Passenger Service)
 Discipline (See Employee)
 Dixon, George D.:
 Freight Rate Increases and Food Prices, 998
 Freight Rate Increases and the Utilities Bureau, 852
 Dock (See Piers)
 Dodgson, Frank L.: Freight Train Time Improved by Automatic Signals, 1424
 Domestic Engineering Company: Delco Light Plant, 607*
 Draft Gear:
 Key Attachment, Murray, 1493*
 Sills, Freight Car, Construction of, 48†

Drawing Room and the Shop, 727†, 730†
 Drill (See Track)
 Dudley, P. H.: Interior Transverse Fissures, 55*
 Duluth & Iron Range: Dock at Two Harbors, Minn., 303*
 Duluth, Missabe & Northern: Coach Step, Extension, 325*
 Dumper (See Hoisting and Conveying)

E

Earnings (See also Revenues and Expenses; also names of companies):
 Canadian Railways' Results for 1916, 887
 Comparison of 1917 with Previous Years, 431†, 459, 1177†
 Figures for 1916, 42†, 169†, 211†, 213†
 Misleading Comparison of March Earnings in the New York Tribune, 1029†
 Taxes, Percentage Paid in, 83†, 213†
 Trainmen's Earnings in 1916, 454
 U. S. Steel Corporation, 208
 Economic Club of New York: Garretson, A. B., Address of, 1†
 Economic Club of Washington: Regulation or Control of Railway Transportation, 94
 Economic Practices:
 Clerical Waste, Elimination of, 1326
 Dining Car Service, Waste in, 1079†, 1467†
 Fuel (See Fuel)
 Letter Files and Carbon Copies, 302†
 Lumber, Reclaiming, 946*
 Office Supplies, Standardization of, 871†
 Paper, Waste, Collected; Penna., 239
 Pencils, Misuse of; C. of G., 412
 Savings by the Despatcher, 442, 1471†
 Scrap and the Spring House Cleaning, 815†
 Scrap, Breaking; B. R. & P., 844*
 Scrap Yard, Central, 25
 Waste, Elimination of, 1221†
 Economy Devices Corporation: Truck, Pedestal, 744*
 Education:
 Apprentice Squad; Southern Railway, 802
 Car Inspectors, Selecting and Training of, 101
 College Men in Railway Service, 82†, 300†, 432†, 437*, 615†, 734†, 1129†, 1150, 1470†
 Long Island Mathematics Course, 197
 Man Problem on the Railroads, The, 234
 Schools for Women, 1407*, 1495
 Telegraph School; S. P., 1163
 "Traffic Service Bureau," A., 1495
 Eight-Hour Day (See Employee—Wages)
 Electric Locomotive (See Locomotive)
 Electricity as an Aid to Railroad Operation, 1395*
 Electrification:
 Canadian Northern at Montreal, 981†, 999*
 C. M. & St. P., Data on Operation, 642
 C. M. & St. P., from Othello, Wash., to Pacific Coast, 175*, 962
 Chicago Problem, 86†, 126†
 Electrical Night of the New York Railroad Club, 641
 Electrical Testing, R. S. A. Report on, 494*
 Electricity, A. R. E. A. Report on, 535*
 English Progress, 352
 Lehigh Valley Plans, 285
 Long Island's Evergreen Branch, 753
 Maintenance of Electric Locomotives; N. Y. N. H. & H., 129*, 445*, 611†
 Maintenance of Electric Locomotives; N. & W., 768†
 Stinemetz, W. R., on, 306
 Elevator (See Yards and Terminals)
 Elgin, Joliet & Eastern: Valuation Report, Tentative, 323, 714
 Elliott, Howard: Resignation from the New Haven, 905, 1066
 Ely, Theodore N.: Firebox, Wide, Invention of, 1732, 2563
 Embargo (See Freight)
 Employee (See also Education; also Legal Decisions; also Legislation; also Officer):
 Athletic Meets on Various Roads, 253†, 257*
 Baltimore & Ohio Employees in War Time, 1306
 Bonus: Northern Pacific, 1063
 Car Inspectors' Work, 101
 Clerical Waste, Elimination of, 1326
 College Men in Railway Service, 82†, 300†, 432†, 437*, 615†, 734†, 1129†, 1150
 Conductors, Instructions to; B. & O., 212†, 224
 Discipline and the Superintendent, 339†, 343†, 344†
 Discourtesy to Employees, 300†, 615†
 Engineer (See Officer)
 Full Crew Bill in Texas, 1029†, 1050
 Full Crew Law in New Jersey, 197, 371, 434†, 463, 646, 1063
 Full Crew Law Repeal as a War Measure, 815†, 1029†, 1063, 1180†
 Hours of Service Report, 112
 Insurance, Life: C. G. W., 459
 Labor:
 Advertising Man on, The, 14
 America and England in the War, 1367*
 Machines in the Accounting Department, 1457
 Public Interest in Labor Disputes, 198
 Settlement of Controversies, 1†
 Shortage for Track Work, 384†, 1315
 Unionism, Menace of, 128†

Employee—Labor (Continued):

War and Labor Disputes, 801
 War, Problem After the, 739
 Lehigh Valley's Instructions, 624
 Liberty Loan, 1058, 1079†, 1094, 1149, 1197, 1206, 1249
 Man Problem on the Railroads, The, 234
 Mechanical Men, Enlistment of, 1411
 Passes, Pullman, 300†, 615†, 734†
 Pensions:
 Chicago, Rock Island & Pacific, 459
 Denver & Rio Grande, 1163
 Norfolk & Western, 754
 Pennsylvania, 281
 War Policy of Railroads, 1348
 Promotion, Preparing for, 85†, 1180†
 Relief Department Payments; C. B. & Q., 1250
 Relief Department Payments; Penna., 370
 Selling Passenger Service, 26
 Strike:
 Brotherhoods Threaten Strike—Negotiations with Railroad Managers, 433†, 456, 475, 476†, 629
 Chicago, Milwaukee & St. Paul Freight Car Repairmen, 197
 Chicago Switchmen, 241, 254†
 Illinois Central, 197, 239
 Prevention Laws, 1†, 27, 43†, 53, 81†, 178, 261, 342†
 Wages:
 Adamson Law Constitutional, 612†, 631
 Advertising the Labor Controversy, 14
 Eight-Hour Day and Fuel Costs, 981†
 Eight-Hour Day Demand, 14, 17, 42†, 81†, 111, 125†, 390†, 433†, 456, 475, 476†, 503, 629
 Eight-Hour Day Law, 2†, 43†, 53, 61, 106, 143†, 178, 223, 261, 503, 612†, 631, 684†
 Eight-Hour Day on the Alaskan Government Railway, 816†
 Enlisted Men, 1301, 1348, 1411
 European Increases and Freight Rates, 265
 Fireman's Point of View, A., 390†
 Increases in, 114, 281, 326, 411, 646, 718, 753, 907, 963, 1063, 1112, 1163, 1205, 1495
 Shop Man's Pay, The, 50
 Telegraphers; N. Y. N. H. & H., 281
 Trainman, Work of the, 17
 Trainmen's Earnings in 1916, 454
 War Policy of Railroads, 1348
 Women Car Cleaners, Uniforms for, 1085†*
 Women on American Railways, 963, 1062*, 1066*, 1163, 1407*, 1457, 1496
 Women on Canadian Railways, 1303*
 Women on English Railways, 1085†*, 1409*
 Yard Service and Terminal Service, 42†
 Engine (See also Locomotive):
 Districts, Shortening, 82†
 Failures and Repairs, 1346
 Portable Gas, 682*
 Terminal, 1346
 Engineer (See Officer; also American Railway Engineering Association)
 Engineering, Mechanical (See Mechanical Engineering)
 Engineering Methods in Car Construction, 41†
 Engineering Regiments to France, 871†, 895, 1004, 1093, 1099, 1138, 1196*, 1274*
 England:
 Ambulance Trains, 1441*
 British Armies in France, 784, 1449
 Electrification Progress, 352
 Labor's Part in the War, 1368
 Locomotives, War, 1383*, 1456*
 Mechanical Men, Shortage of, 1411
 Operation of Railways During War, Julius H. Parmelee on, 872†, 901
 Organization of Railways for War, Henry W. Thornton on, 1271*
 Women Engine Cleaners, 1085†*
 Women, Experience in Employing, 1409*
 Equipment and Supplies (See also Car; also Locomotive):
 American and Canadian Built Equipment for European Countries, 1463*
 Equipment to Move an Army, 1003
 Car and Locomotive Builders, Committees of, 1163
 Car Equipment Trust of America, 1085†
 Cars and Locomotives Ordered in 1916, 28
 Cars and Locomotives Ordered Since January 1, 1917, 297†, 1031†, 1463*
 Cost in 1915 and in 1917, 464, 1165, 1359*
 Electric Equipment, 1399*
 Exports for Eight Months, 1092
 Italian War Commission to Purchase, 1063*
 Labor Saving Equipment, 1318*, 1457
 Material Situation and Maintenance, 1359*
 Purchasing of, Unintelligence in, 169†
 Rails and Track Materials Produced in 1916, 936, 1138
 Selling Supplies Abroad, 43†
 Testing Department and Purchases, 339†
 Tools, Buying, 254†, 386†
 Wooden Freight Cars Constructed, 1356*
 Wooden Passenger Cars vs. Steel, 1467†, 1492
 Erie:
 Car, Dining, 950*
 Car, Steel Passenger, 1472*
 Women Employees, 1407*, 1496
 Erie Canal History, 1206

GENERAL INDEX—Continued

[Illustrated articles are indicated thus *; Editorials thus †; Letters to Editor thus ‡.]

Ethical Culture Society: Work of the Trainman, 17

Europe:

Equipment Built in America, 1463*
 Fuel Shortage, 1295*
 Protection of Railways, 715
 Railway Maps, 1340
 Railroads Meeting Second Great Trial, 1453
 Transportation Muddle and the War, 189
 Transportation of Military Traffic, 1334
 Traveling in War Time, 231
 Wage Demands and Freight Rates, 265
 War Loan Advertising, 816†, 835*

Executive Committee of the American Railway Association Special Committee on National Defense:

Conventions Discouraged, 1208
 Dempsey Telegraphic Codes Adopted, 1111
 Freight Train Schedules, 1394
 Mobilization of Freight Cars, 928†, 951, 988†, 1134†, 1351*
 Organization, 769†, 777*, 817†, 824, 845*, 985†, 1267*, 1321*
 Passenger Service, Curtailment of, 982†, 1092, 1159, 1163, 1255, 1500
 Sub-Committees (See Committee)
 Ways to Increase Efficiency, 1010
 Work of, 1092, 1145, 1322, 1474

Exhibits (See also names of associations):

Contest on Exhibit of the National Railway Appliances Association, 170†, 340†, 477†, 516†, 564†, 606†
 Suggestion for Atlantic City Exhibitors, 733†

Expenses (See Revenues and Expenses)

Explosives: Annual Report of Bureau, 738, 754

Exports (See Equipment and Supplies)

Express:

Revenues and Expenses for October, 1916, 717

Revenues and Expenses for Year 1916, 647

Extinguisher (See Fires)

F

Fairbairn, J. M. R.: Lamp, Standard; Can. Pacific, 18*

Fairbanks, E. & T. & Co.: Track Scale, Plate Fulcrum; Pennsylvania, 395*

Fairbanks, Morse & Co.:

Inspection Car, Nichols, 682*

Power Plant for Hand Cars, 65*

Fargo Manufacturing Company: Grounding Devices, 510*

Farming (See Agriculture)

Federal Regulation (See Government Regulation)

Federal Trade Commission:

Pooling of Transportation and Coal by Government Recommended, 1480, 1485, 1498
 Report on Bituminous Coal Situation, 1095

Feed Water (See Locomotive)

Felton, Samuel M.: Regiments Organized for Foreign Service, 1274*

Fence Post (See Posts)

Files (See Office)

Finance (See also Accounting; also Valuation; also Revenues and Expenses):

Canadian Railways (See Canada)

Capital for New Construction in 1916, 309

Central Argentine Note Purchase, 82†

Chicago, Rock Island & Pacific Receiver-ship Ended, 1223†

Credit, Julius Kruttschnitt on, 699

Dividend Rates in 1916, 68

Earnings in 1916, 42†, 169†, 211†

Failure of Plans; Southern and New York Central, 383†

Foreclosure Sales in 1916, 60

I. C. C. Report on the Pere Marquette and the C. H. & D., 891

Liberty Loan, 1058, 1079†, 1094, 1149, 1197, 1206, 1249, 1433

Missouri, Kansas & Texas' Prospects for 1920, 929†

Missouri, Kansas & Texas Reorganization—Coverdale and Kendrick Reports, 255†, 263, 341†, 365, 401*, 929†

Monthly Analysis of Operating Expenses, 21, 215†

New Haven Problems, 905*

New York Central Stock Sale, 125†

Operating Income Decline in 1916, 42†, 169†, 211†

Operating Income, Expenses and Taxes, 1891-1916, 83†, 213†

Pere Marquette Reorganization, 41†, 839*, 891

Preparedness, Barriers to, 355

Securities, Advertising and Selling, 816†, 835*

Securities Held Abroad, 697

Security Issues, Regulation of, 253†

Security Holders' Organization, 1107, 1130†, 1471†

Taxation and Earnings, 1891-1916, 83†, 213†

Taxation Bill, War, 1003, 1061, 1098

Taxes of Railroads in Wisconsin, 718

War's Effect on, 1431

"Watered" Stock, 89

Firebox (See Locomotive)

Fires (See also National Fire Protection Association):

Baltimore & Ohio Fire Fighters, 110
 Extinguishers on Passenger Cars, 21
 Fuel Oil Furnaces, Hazard of, 317
 Kindling Fires in Locomotives, 1056
 Lantern, Hand, Hazard of the, 634
 Miscellaneous, 67, 110, 154, 197, 239, 281, 370, 459, 796, 851
 Pennsylvania's Report for 1916, 239
 Protection of Property Through Policing, 940
 Southern Pacific's Protection System, 627*
 Sprinklers for Freight Houses; Penn., 183†
 Union Switch & Signal Company at Swissvale, Pa., 294, 327

Fiscal Year (See Accounting)

Flag (See Signaling)

Flange Lubricator (See Lubrication)

Food Problem (See Agriculture; also Public, The Railways' Relations with; also War)

Foreclosure Sale (See Finance)

Form G (See Train Rules)

France:

Accident at Chateaufort, 198
 Ambulance Trains, 1441*
 British Armies in France, 784, 1449
 Locomotives for War Service, 1383*
 Mission, American, 1275, 1428*
 Railways Behind the Front, 1449*
 Regiments, American Engineering, 871†, 895, 1004, 1093, 1099, 1138, 1196*, 1274*
 Selling and Advertising War Bonds, 816†, 835*
 Transportation in War Time, 189
 Verdun, Attack Upon, 1450*

Freight:

Billing, Revision of, 49
 Classification, Consolidated, Proposed, 944
 Congestion at Seaports—Government Terminal Elevators Advocated, 1087†
 Congestion in West, 29, 243, 287, 312, 331, 353, 415, 466, 758, 855
 Congestion, W. M. Daniels on, 19
 Containers and Pilferage, 613†, 773†
 Embargoes, 114, 242, 332, 374, 910, 1116, 1422
 Loss and Damage (See Claims)
 Priority of Shipments During War, 1051, 1097, 1154, 1243, 1312, 1486
 Station Efficiency Inspection; M. K. & T., 111
 Tractor-Trailer Methods of Handling, 792

Freight Car (See Car, Freight)

Freight Car Shortage (See Car Service)

Freight Claim Association: Annual Convention, 1483

Freight Claims (See Claims)

Freight Rates:

Advance Rate Case:
 Dixon, George D., on, 852, 998
 Hearings, 929†, 937, 989*, 1017, 1030†, 1045*, 1109, 1135, 1166, 1201, 1233*
 Increases Asked for, 686†, 705, 728†, 742, 787, 796, 825, 852, 873†, 878
 National Association of Owners of Railroad Securities on, 1206, 1234
 Rea, Samuel, on, 908, 990
 Shippers' Opposition to Increases, 818†, 837, 878, 956, 1136, 1202
 Testimony of Railway Executives, 989*, 1030†, 1045*, 1233*

Average Rate in 1916, 253†, 262

C. F. A. Class Rate Hearings, 242, 415, 466, 650

City Delivery Costs More Than Freight, 939

Coal, A Sliding Scale on, 128†, 298†, 301†

Coal Rates in Illinois, 719, 757, 802

Coal Rates to Philadelphia Reduced, 650

European Wage Demands and Rate Increases, 265

Illinois Five Per cent Case Lost, 757, 802

Increases Throughout the World, 1110

Missouri, Increases in, 757

New Jersey, Rates from Western Points to, 71, 116, 159, 201, 967

New Mexico, Interstate Rates in, 1500

Reconignment Tariffs, Hearing on, 1069

Shreveport Rate Case, 222, 826

Shippers and the Transportation Problem, 5†

Slag, Lawsuits to Recover Charges on, 1207

Suspension of Increased Rates, Bill to Re-quire, 1052, 1098

Transcontinental Rate Case, 743, 794

Frog (See Track)

Frog Switch & Manufacturing Company:

Grinder, Swing Frame, 559*

Front (See War)

Fuel (See also International Railway Fuel Association):

Coal:
 Chicago, Famine at, 115, 158, 233
 Loader, Rands, 559*
 Powdered, 1230
 Prices and Car Shortage, 128†, 298†, 301†
 Prices to be Fixed by Committees, 1498

Fuel—Coal (Continued):

Pulverized Plant at Marceline, Mo.; A. T. & S. Fe, 237*
 Report of Federal Trade Commission, 1095, 1480, 1485, 1498
 Shortage, A Remedy for, 233
 War and the Coal Supply, 932†, 1295*
 Costs and the Eight-Hour Day, 981†
 Economy and the Transportation Department, 1029†
 Economy Suggestions of the International Railway Fuel Association, 1157
 Graphic Display of Daily Records, 1105*
 Locomotives, Waste in, 442, 1471†
 Oil Furnaces, Fire Hazard of, 317
 Oil, Increased Use of, 1490
 Pulverized, 1230
 Speed Recorders and Fuel Economy, 47†
 War and the Fuel Situation, 1295*

Full Crew Law (See Employee; also Legislation)

Fuller Engineering Company: Coal Plant, Pulverized; A. T. & S. Fe., 237*

G

Garretson, A. B.: Address on Settlement of Labor Disputes, 1†

Gear (See Car)

General Railway Signal Company:

Lock, Electric Bolt, 514*
 Interlocking on New South Wales Government Lines, 63*

Generator, Locolight Headlight, 949*

Germany:

Military Railways vs. Motor Trucks, 1449*
 Organization, Railway, for War, 1338
 Railway Situation, 1455

Gibbons, Cardinal: American Railways, 708

Gorman, James E., 1487*

Gould Coupler Company: Car Lighting Patent Case, 123

Government Ownership:

Acworth, W. M., on, 1033
 Alaska Northern and the Eight-Hour Day, 816†

Canada, Results in, 172†, 181, 309, 734†

Canadian Royal Commission's Reports, 953, 957, 985†, 1081†, 1112

China, Grant in, 1221†, 1246

Freight Car Provision, 1270†

Gibbons, Cardinal, on, 708

Manila Railroad—Eugene E. Reed Appointed President, 211†

New Zealand, Results in, 872†

Senators' Debate on Government Economies, 384†

Terminal Elevators at Seaports, 1087†

Government Railways of New South Wales:

Interlocking at Flemington, 63*

Government Regulation:

Chicago Association of Commerce on, 241
 Daniels, W. M., Case of, 44†, 73
 Economic Club of Washington's Discussion, 94

Freight Cars, Providing, 1270†

Government and the Railways in This War, 1030†

Interest of Private Property in, 601*

Needs of Florida, 197

Newlands Committee Investigation, 54, 107, 617, 698, 737, 1033

"Philadelphia Plan," 240, 1066

Pooling of Transportation and Coal, 1480

Post Office Department, 2†

Railway Business Association Annual Dinner, Discussions at, 82†, 87

State and Federal Laws Conflicting, 81†, 355, 826, 1416

State Commissions, Personnel of, 685†, 687

State Regulation of Security Issues, 253†

War, Effect on, 1415*

Grade Crossings:

Arizona, Construction Rules in, 961
 Bell, U. S. & L., 561
 California Commission's Investigation, 340†, 349*

Pennsylvania, Standard Signs in, 961

Separation Problem at Syracuse, 774*

Signal, Flash-Light, 1061*

Signals at Highways: A. C. L., 1040*

Signals in Illinois, 110, 431†

Stop, Look and Listen Rule, 216†, 245, 431†

Grand Trunk:

Chamberlin, E. J's., Reply to Investigators, 1112
 Watch Inspectors' Convention, 239

Gray, John H.: Appointment to Valuation Advisory Board, 169†

Gray, Peter & Sons: Lamp, Electric Signal, with Reflector, 889*

Great Britain (See England)

Grinder (See Track)

Ground (See Pipe)

Guard (See National Defense)

Guncrete (See Concrete)

Gustin-Bacon Manufacturing Company: Air Pump Strainer, Locomotive, 192*

Gwynn, Walter: Report on Location of the Portsmouth & Roanoke, 752

H

Hall, Henry C., 628*
 Harrison, Fairfax: Railroads' War Board, Work of, 1092, 1474
 Haskell & Barker Car Company, Inc.: Annual Report, 764
 Tie Cars: A. T. & S. Fe, 749*
 Headlight (See Locomotive)
 Hell Gate Bridge, 453*, 727†
 Highway Crossing (See Grade Crossings)
 Hine, Charles: Railroad Employees in War Time, 1306
 Hocking Valley: Annual Report, 1178†, 1213
 Hodges, George, 844*
 Hoisting and Conveying:
 Bucket, Blaw Excavating, 608*
 Crane, Electric, 1399*
 Crane for Breaking Scrap: B. R. & P., 844*
 Dumper, Box Car; D. L. & W., 185*
 Dumper, Coal Car; B. & O., 1226*
 Loader, Rands Coal, 559*
 Tackle for Unloading Automobiles, 1156*
 Unloader, Box Car; D. L. & W., 185*
 Hóse (See Brake)
 Hospital Car (See Ambulance Trains)
 Howard, James E.: Transverse Fissures, Study of, 623, 1086†
 Hudson Railway Signal Company: Semaphore near Richmond; C. & O., 110
 Hunt, Robert W.:
 Test, All-Ingot, for Steel Rails, 896
 Tests on Track Insulation, 314
 Hyatt Roller Bearing Company: Tests on Journal Friction, 560*

I

Illinois Central:
 Annual Report, 1032†*, 1077
 Car, Wooden Stock, 1356*
 Cast Iron Pipe Records, 1491
 Grade Crossing Safety Campaign, 411, 431†
 Jack, Reinforced Concrete Smoke, 224*
 Resistance Tests of Passenger Trains, 407*
 Signaling Work, 1160*
 Strike of Maintenance of Way Men, 197, 239
 Terminal Plans in Chicago, 126†
 Tornadoes, Damage by, 1164
 Water Supply and Cost, 740, 903
 Illinois Manufacturers' Association:
 Car Service Rules, Protest Against, 374
 Rate Advances Favored, 910
 Illinois Passenger Rate Case (See Passenger Fares)
 Illinois Railroad Committee: Rate Increases, Reasons for, 796
 Illumination (See Lighting)
 Immigration After the War, 739
 Improvement (See Construction, New)
 Industrial Organizations in War, 1341*
 Ingersoll-Rand Company: Pneumatic Equipment for Drilling Screw Spikes, 748*
 Inspection Car (See Car; also Motor Cars)
 Insurance (See Employee)
 Interborough Rapid Transit Company:
 Battery Charging Sets, 238*
 Signaling Work in New York City, 379
 Interchange Car Inspectors' and Car Foremen's Supply Men's Association Organized, 917
 Intercolonial Railway: Government Ownership Results, 172†, 181, 309, 734†
 Interlocking (See Signaling)
 International Railway Fuel Association:
 Annual Convention, 925†, 1053, 1067, 1080†, 1101
 Powdered Coal, 1230
 Suggestions for Conserving Fuel, 1157
 International Signal Company: Automatic Train Stop, Webb, 789*
 International Trade Press, Inc., 424
 Interstate Commerce Commission:
 Accident Bulletins, 272, 1057, 1080†
 Accident Report—Pennsylvania at Mount Union, 1030†, 1056
 Car Service Jurisdiction Granted, 222, 347, 1051, 1154
 Car Supply Investigation, 15, 126†, 135, 241, 312, 353
 Clements, Judson C., Death of, 1313
 Daniels, W. M., Reappointment of, 44†, 55, 73, 107, 144
 Delano, F. A., for Member, 1469†
 Freight Rate Advance Case (See Freight Rates)
 Freight Rate Increases in C. F. A. Territory, 242, 415, 466, 650
 Hours of Service Report, 112
 Mail Pay Rates—Statement of the Postmaster General, 443
 Members of, 691, 1415*
 Membership, Bill to Increase, 347
 New Jersey, Rates from Western Points to, 71, 116, 159, 201, 967
 Office Building, New, 1099
 Passenger Fares, Interstate—Complaint of M. K. & T., 159
 Plan for a Representative Commission, 343†
 Report of Division of Safety, 24
 Report on the Pere Marquette and the Cincinnati, Hamilton & Dayton, 891
 Safety Appliance Act, Time Extended on, 398, 1018, 1070
 Signal Bulletin, Annual, 1492

Interstate Commerce Commission (Continued):

Statistics of Operating Revenues, Expenses, etc., 1891-1916, 213†
 Trainmen's Earnings in 1916, 454
 Transcontinental Rate Case, 743, 794
 Valuation (See Valuation)
 Violations of Commerce Law by Shippers, 433†
 Work, Statistics of, 1488
 Interstate Commerce Commission Rulings:
 Agricultural Implements, Export Rates on, 72
 Alaska Investigation, 1255
 Blackstrap Molasses from Gulf Ports, 968
 Boston-New York Proportional Rates, 467
 Car Spotting Charge, 243
 Cement from Troy, N. Y., 1070
 Cement to Kentucky, 159
 Cincinnati Switching Absorption, 1117
 Class Rates from Ohio Points to the Southeast, 1021
 Cleaning Stock Cars, Charge for, 115
 Coal for Pennsylvania Mines, 72
 Coal to La Crosse, Wis., 969
 Coal to Nashville, Tenn., 803
 Complaints Dismissed, 1117
 Cotton Goods from the Southeast, 968
 Cotton to New England Points, 1117
 Dairy Products, Rates on, 803, 968, 1117
 Demurrage on the New Haven, 159
 Embargoes on Hay at New York, 803
 Fourth Section Applications, 968
 Fresh Meats from St. Louis, 1117
 Fruits and Vegetables, 758, 969
 Gasoline from Coffeyville, Kan., 467
 Grain, Export, Advances on, 115, 159
 Grain from Vicksburg, Miss., 968
 Grain Products via the Great Lakes, 969
 Grain to Cairo, Ill., 855
 Grain to Little Rock, Ark., 1117
 Grand Trunk Operation of Canada Atlantic Transit Company, 720
 Headlight Order, 1†, 29, 1495
 Ice from Wisconsin, 968
 Illinois Passenger Fares, 73, 81†, 117, 348, 967, 1069, 1116, 1208, 1223†, 1486, 1501
 Iron and Steel, Export Rates on, 244, 375
 Iron Ore Rate Cases, 969
 Lake and Rail Rate Cancellations, 71, 1209
 Lake and Rail Rates, 467, 720, 968, 1167
 L. C. L. Minimum Handling Charges, 758
 Lumber from New England, 968
 Lumber from Oklahoma, 288
 Lumber from Southeastern Points, 159
 Lumber to Cairo, Ill., 969
 Lumber to Iowa Points, 1070
 Memphis to Points in Arkansas, Rates from, 468
 Mississippi River Rates, 969
 Molasses from Texas and Louisiana, 467
 New Orleans and Galveston to Missouri River Cities, Rates from, 1209
 New Orleans Terminal Allowances, 243
 New York Commutation Fares, 33
 Packing House Products from Houston, Tex., to Points in Oklahoma, 1070
 Paper from Michigan, 288
 Peddler Car Minimum, 467
 Petroleum to Kentucky, 288
 Petroleum to St. Louis, 968
 Potatoes from Wisconsin and Minnesota, 1117
 Rail and Lake Cancellations, 71, 1209
 Rail and Lake Rates, 467, 720, 968, 1167
 Refrigeration Charges on Fruit, 467
 Released Rates for Shipment by Express, 969
 Rice from California, 71
 Rice from Texas, 467
 Rules of Practice Revised, 1117
 St. Louis to Illinois Points, Rates from, 1070
 Safety Appliance Act Extended, Time on, 1018, 1070
 Southern Pacific's Ownership of Atlantic Steamship Lines, 416
 Storage Charges on Export Grain, 201
 Sulphuric Acid from New Orleans, 33
 Switching Cars of Coal to the Akron, Canton & Youngstown, 1070
 Switching Charges at Richmond, Va., 1117
 Switching Charges on Grain at Milwaukee, 1070
 Telegraph Message Unrepeated, 1209
 Thompson's Point, N. J., Rates from, 33
 Trackage Agreement, Restrictions of a, 1070
 Transcontinental Rates, 72, 467, 743, 794
 "Two for One" and "Follow Lot" Rules, 71
 Wheat Products from Utah, 243
 Wisconsin Rate Cases, 1209
 Iron and Steel Structures: Report of A. R. E. A. on, 673*
 Italy:
 Armored Trains, 939*, 1374*
 Transportation System in War Time, 57*
 War Commission, 1063*

J

Jack, Reinforced Concrete Smoke, 224*
 Jefferson Construction Company: Seaboard Air Line from Hamlet, N. C., to Savannah, Ga., 941*
 Jeffery, Edward T., 66*
 Joffre, General: Railways in War, 1269†, 1307

Joint Committee on Concrete and Reinforced Concrete: Report of, 100
 Joint Congressional Committee on Interstate Commerce: Investigation of Government Regulation, 54, 107, 617, 698, 737, 1033
 Journal (See Bearings)

K

Kansas City Southern: Valuation Protest and Hearings on, 139, 254†, 745
 Kendrick, J. W.: Report on the M. K. & T., 341†, 365, 929†
 Keyoke Railway Equipment Company: Draft Gear Attachment, 1493*

L

Labor (See Employee; also War; also Legislation; also Maintenance of Way)
 Lackawanna Steel Company: Annual Report, 424
 Lamps (See Lighting)
 Lancashire & Yorkshire: Women Engine Cleaners, 1085†*
 Lantern (See Lighting)
 Law (See Legislation)
 Legal Decisions:
 Accident Suit and Subsequent Changes in Signals, 41†, 117
 Accidents at Crossings, 160, 216†, 245, 375, 652, 759, 856, 871†, 1022, 1071, 1210, 1502
 Adamson Law Held Constitutional, 612†, 631, 684†
 "Approach to Bridge," 803
 Arkansas 2-Cent Fare Statute, 1169
 Attraction to Children, 971, 1502
 Automatic Couplers, Necessity for, 1022
 Automatic Couplers on Interstate Interurban Railways, 720
 Baltimore & Ohio Damage Suit, 871†
 Baltimore & Ohio's Contract with the Western Union Telegraph Co., 326
 Bill of Lading Issued After Shipment, 245
 Bill of Lading Law, 651
 Bill of Lading Notice, 720
 Bills of Lading, Spurious, 856
 Carmack Amendment, 468, 970
 Commission Cannot Order Construction of New Lines—A. T. & S. Fe vs. California Railroad Commission, 162
 Commission Paid to Forwarder Is a Rebate; Lehigh Valley, 912
 Commissioners' Order Not a Rule, 1118
 Common Carrier Must Carry Passengers, 289
 Conductor's Duty to All Passengers Alike, 418
 Consignee Must Receive Partially Damaged Goods, 117
 Construction of Embankment Against Floods, 651
 Contract to Transport for Life, 244
 Damages, Excessive, 244, 376, 417, 418, 970, 1502
 Damages for Overcharge—Discrimination in Use of Cars, 35
 Damages for Wrongful Removal of Earth, 720
 Damages, Punitive, 288
 Dayton Flood Case, 160
 Demurrage Charges—"Seasonal Tariff," 721
 Demurrage Rule—Private Cars, 333
 "Depot"—Texas Statute, 34
 Dipping Cattle, 34
 Drivers as Passengers, Status of, 721
 Ejection Without Demand for Fare, 332
 Embankments and Surface Water, 161
 "Engaged in Interstate Commerce," 469, 1169
 Expense of Safety Appliances at Grade Crossing, 289
 Federal Employers' Liability Act, 34, 468, 721, 911, 970, 971, 1071, 1168
 Fencing Statutes Not Applicable to Trespassing Human Beings, 333
 Fires, Damages from, 244, 289, 333, 651
 Flooding, Damages for, 34, 1118
 Freight Charges, Collection of, 803, 804
 Freight Stored in Transit, Liabilities for, 118
 Georgia Whistling-Post Law, 1257
 Goods Stolen by Railroad's Employees, 417
 Grade Crossing Elimination—Distribution of Cost, 468, 856
 Hauling Defective Cars to Repair Points, 911
 Headlight, Want of, 34
 Hours of Service Act, 161, 162, 244, 970, 971, 1071, 1257, 1502
 Initial Carrier Agent of Connecting Line, 244
 Initial Carrier and Freight Damages, 160
 Injuries to Employees, 118, 161, 202, 289, 417, 468, 469, 911, 970, 971, 1022, 1071
 Injuries to Passengers, 34, 117, 161, 202, 759, 804, 970, 1118
 "Interstate Passenger," 651
 Interstate Shipment Diverted, 289
 Jurisdiction as to Flagmen at Crossings, 1021
 Jurisdiction of Interstate Commerce Commission, 35
 L. & N. Bridge at Ohio Falls, 73
 Land Grant Suit—Government vs. Southern Pacific, 912

GENERAL INDEX—Continued

[Illustrated articles are indicated thus *; Editorials thus †; Letters to Editor thus ‡.]

Legal Decisions (Continued):

Lease, Free, of Factory Site by Carrier, 652
 Lehigh Valley Water Line Divorced, 721
 Liability of Consignor for Freight Charges, 970
 Limited Valuation of Shipments, 244
 Liquor Transportation of Dry States, 73, 721, 804
 Louisiana Stop, Look and Listen Rule, 216†, 245
 Mail Divisor Case; C. & A. and Y. & M. V., 118
 Mail Sacks Thrown from Moving Train, 759
 Maintenance of Industry Tracks, 971
 Mann Act, 118
 Mechanics' Liens Against Railroads, 376
 Monopoly in Use of Track, 202
 Nebraska Freight Speed Law, 333
 Noise from Spur Track Switching, 245
 Notice of Arrival of Freight, 911
 Notice of Claim for Damages, 160, 244, 289, 417, 468, 1021, 1022, 1257
 Notice of Special Damages by Delay, 376
 Operation of Industry Track by Shipper, 160
 Passenger and Carrier, Relation Between, 289
 Passenger Intoxicated, Care of, 376, 418
 Passenger Ejected from Train, 721, 759, 804, 1167
 Passenger Rates in Illinois, 73, 81†, 117
 Passes, Free, 244, 289, 1022
 Patent Suits, 123, 167, 1505
 Private or Carriers' Track, 468
 Reorganization, Objection to a Plan of, 856
 Right of Way Deeds, 160, 970, 1071
 Rights of Way Through Forest Reservations; C. M. & St. P., 1258
 Rules as to Car Inspection, 911
 Safety Appliance Act, 162, 911, 1210
 Separation of Races in Mississippi, 245
 Shippers Liability for Freight Charges, 720
 Side Track Facilities, Providing, 332
 Southern Pacific Retains Central Pacific, 651, 683†, 702
 Special Train Rates, 1168
 Stop, Look and Listen Rule, 160, 161, 202, 216†, 245, 804, 970, 1071, 1118, 1210, 1502
 Storage Charges for Travelers' Baggage, 1022
 Subsidies in Aid of Railroads, 161
 Suspension of Penalty During Pendency of Injunction Suit, 759
 Switches for Abutting Mills, 161
 Taxation, Double, 1022
 Taxation on Main Line Only, 856
 Taxes on Leased Corporations, 721
 Taxing Statute, Kentucky; L. & N., 1502
 Telephones in Stations in Nebraska, 117
 Terminals, Owner's Exclusive Right to Use, 856
 Ticket Agents' Authority to Arrest Offenders, 804
 Track Scale, Contract for Construction of, 1168
 Train Orders, Verbal, 911
 Trains, Unprofitable, Discontinuance of, 1258
 Transportation and Switching Rates, 971
 Trespassing Cases, 117, 160, 804
 Twenty-Eight Hour Law, 333
 Wolhaupter Tie Plate Patent, 1505
 Workmen's Compensation Laws, 418, 1118

Legislation:

Adamson Act, 2†, 43†, 53, 61, 106, 143*, 178, 223, 261, 503, 612†, 631, 684†
 Canadian Industrial Disputes Act, 754
 Car Service Bills, 179, 222, 347, 1051, 1098, 1154
 Clayton Law Extension, 348
 Clearance Bill, 178
 Clearance Order in Illinois, 684†, 704*
 Congress and the Strike Menace, 342†
 Congressional Inquiry on Railroad Regulation, 54, 107, 617, 698, 737, 1033
 Daniels, W. M. and the Senate, 144
 Daylight Saving Bill, 1113, 1205, 1495
 Esch Bill, 222, 1051, 1154
 Flood Control Work, 371
 Full Crew Bill in Texas, 1029†, 1050
 Full Crew Law in New Jersey, 197, 371, 434†, 463, 646, 815†, 1063
 Illinois Passenger Fare Case, 73, 81†, 117, 348, 967, 1069, 1116, 1208, 1223†, 1486, 1501
 Labor Bills in Congress, 143, 261, 317, 409, 1099
 Lawsuits to Recover Freight Charges on Slag, 1207
 Liquor Transportation in Georgia, 757
 Locomotive Inspection Laws and Rules, 750
 Massachusetts State Board of Trade, Resolutions of, 33
 Pomerene Bill, 1154
 Post Office Appropriation Bill, 1†, 31, 281, 987†
 President to Take Railroads, Bills to Authorize, 223†, 825

Legislation (Continued):

Priority Bill, 1051, 1097, 1154, 1243, 1312, 1486
 Proposed, 60, 94, 184, 237, 271, 784, 832, 886, 1051, 1097, 1186
 Senators' Debate on Government Economies, 384†
 State and Federal Laws Conflicting, 81†, 355, 826, 1416
 State Laws, New, 767†, 791, 1197
 Strike Prevention Bills, 1†, 27, 43†, 53, 81†, 178, 261, 342†
 Violations of Laws, 326, 433†, 646, 851
 War Taxation Bill, 1003
 Webb Bill, 43†, 154, 281, 1496
 Webb-Kenyon Law Constitutional, 73

Lehigh Valley:

Annual Report, 1224†, 1261
 Commission to Forward a Rebate, 912
 Electrification Plans, 285
 Employees and the Public, 624
 Explosion at Black Tom, Report on, 754
 Locomotives, Pacific and 2-10-2 Type, 897*
 Water Line Divorced, 721

Liberty Loan (See War)

Light Railways in the War, 1364*, 1451*

Lighting:

Electric Light Plant, Delco, 607*
 Fixtures, Concealment, 557*
 Headlight (See Locomotive)
 Illumination of Shops, 1398*
 Lamp Design; R. S. A. Report, 483*
 Lamp, Electric Signal, with Reflector; N. Y. N. H. & H., 889*
 Lamp, Standard; C. P., 18*
 Lantern, Fire Hazard of the, 634
 Protective, 1399

Liquor (See Legal Decisions; also Legislation)

Loader (See Hoisting and Conveying)

Loading (See Car Service; also Train Loading)

Loan (See War)

Location (See Construction New; also Camps)

Lock (See Signaling)

Loco Light Company: Headlight Generator, 949*

Locomotive:

American and Canadian Built Locomotives for European Countries, 1463*
 Atlantic Type, Tests of; Pennsylvania, 612†, 635*
 Boiler Metal Treatment, Perolin, 148
 Brick Arch Tests; Pennsylvania, 926†, 933*
 Capacity, Increasing, 1347
 Decapod; Pennsylvania, 1241*, 1471†
 Duplex; Southern Ry., 267*
 Electric:

Canadian Northern, 1001*
 Maintenance of; N. Y., N. H. & H., 129*, 445*, 611†
 Maintenance of; N. & W., 768†
 Mechanical Design of, 13
 Pennsylvania, 1199*
 Engines, Small, in the War, 1383*
 Engines, Transfer; C. & N. W., 698*
 Feed Water Heating, 1080†, 1101
 Firebox Development—Messrs. Milholland's and Ely's Share in, 173†, 256†
 Firebox, McClellon Water-Tube, 781*
 Firebox Volume and Boiler Performance, 840*
 Fuel (See Fuel)
 Grate Area Limitations and the Stoker, 196
 Headlight Generator, Locolight, 949*
 Headlight Order, I. C. C., 1†, 29, 1495
 Inspection Laws and Rules, Purposes of, 750
 Kindling Fires, 1056
 Lubricator, Flange, 153*
 Madrid, Zaragoza & Alicante of Spain, 785*
 Maintenance in War Time, 1343*
 Mikado and Consolidation Types Compared; Pennsylvania, 1176†, 1187*
 Orders in 1916, 28
 Orders Since Jan. 1, 1917, 297†, 1031†, 1463*
 Pacific and Santa Fe Types; L. V., 897*
 Recorder, Speed and Fuel Economy, 47
 Repairs, Quick, to a Consolidation Type; D. & H., 1370*
 Rod Packing and Swab Holder, 738*
 Russia, Shortage in, 1490
 Shoe Fastening, Markel Crosshead, 196*
 Snow Cleared by Steam; C. B. & Q., 286
 Strainer, Air Pump, 192*
 Triplex; Virginian, 141*
 War Engines at the Front, 1383*
 War Locomotives Built in America, 1456*
 Water Conditions in the Boiler, 359*
 Women Engine Cleaners, 1085†*

Locomotive, Electric (See Locomotive)

Long Island:

Annual Report, 819†*
 Commutation Traffic, 199
 Electrification of Evergreen Branch, 753
 Food Train, 1067, 1379*
 Mathematics Course for Employees, 197
 Passenger Fare Increase, 719

Loomis, Edward E., 364*

Loree, L. F.: Securities Held Abroad, 697

Los Angeles & Salt Lake:

Campaign to Increase Earnings, 200
 Train, Demonstration, 1381*
 Loss and Damage (See Claims)
 Louisiana: Statute Requiring Stop at Crossings, 216†, 245
 Louisville & Nashville:
 Bridge at Ohio Falls, 73
 Signaling, Absolute-Permissive, 134*
 Signals, "Hold-Main" at Lafollette, 1203*
 Taxation in Kentucky, 1502
 Louisville, Henderson & St. Louis: Electric Light Plant, 607*
 Lubrication:
 Flange Lubricator, 153*
 Freight Cars in Interchange, 1039
 Luitwieler Pumping Engine Company: Pumping Head, 561*
 Lumber (See Ties and Timber)
 Lumber Manufacturers' Agency: Loading Record, 719

M

McClellon, James M.: Firebox, Water Tube, 781*
 McGraw-Hill Publishing Company, Inc., 380
 McKen Motor Car Company: Motor Car; Southern Utah, 148*
 Machine (See Office; also Posts)
 Macon Terminal Company: Union Passenger Facilities, 693*
 Madrid, Zaragoza & Alicante: Locomotives, 12-Wheel Passenger, 785*
 Mail:
 Magazines and Newspapers, Proposed Increases on, 1†, 31, 281, 987†
 Pay Rates and Statement of the Postmaster General to the I. C. C., 443, 881
 Postal Service, Management of, 2†
 Maintenance of Equipment:
 Car Repair, 1429*
 Electric Locomotives; N. Y., N. H. & H., 129*, 445*
 Electric Locomotives; N. & W., 768†
 Locomotives in War Time, 1343*, 1370*
 Signal Facilities, 1427
 Maintenance of Way:
 Ballast, Report of A. R. E. A. on, 578*
 Labor Shortage and the War, 1314*
 Labor Supply for Track Work, 384†
 Material Situation Reviewed, 1359†
 Road Building and Labor, 984†, 1225†
 Manganese Track Society: Frog, Improved Design of, 1192*
 Manila Railroad: Reed, Eugene E., Appointed President, 211†
 Map (See also Annual Reports):
 Army Camps, Location of, 1339*
 Civil War, Railroads in, 1389*
 European Railway, 1340
 Markel, Charles: Crosshead for Fastening Shoes, 196*
 Masonry (See Concrete)
 Massachusetts Institute of Technology: Conservation of Railway Resources, 1143
 Massachusetts State Board of Trade: Legislation Needed, 33
 Massey Company, C. F. Jack, Reinforced Concrete Smoke, 224*
 Master Car Builders' Association:
 Exhibitors at June Convention, 413, 733†, 801
 Freight Car Sill Construction, 48†
 Mechanical Associations, Closer Co-Operation for, 926†*
 Mechanical Engineers' Activities, 872†
 Reporting Marks on Freight Cars, 174†
 Materials (See Equipment and Supplies)
 Materials and Supplies, Sub-Committee on, 1361*
 Mattress for Bank Protection, Wabash, 321*
 Mechanical Department Associations, Closer Co-Operation for, 926†*
 Mechanical Department Engineering, 683†, 691, 727†, 731†, 767†, 817†, 872†
 Mechanical Department Men in Military Service, 1411
 Mechanical Design of Electric Locomotives, 13
 Mechanical Valuation Committee, Midwestern, 351
 Meet (See Organization)
 Mexico, Conditions in, 956, 1225
 Michigan Central: Annual Report, 876†, 921
 Midvale Steel & Ordnance Company: Annual Report, 424
 Mileage: Car Mileage Statistics, 1907 to 1916, 127†, 145*
 Milholland, James: Firebox, Wide, Invention of, 173†, 256†
 Military Aspect of Railroad Preparedness, The, 1412*
 Military Committees (See Committee)
 Military Railways (See also Light Railways), 1337, 1387*, 1414, 1449*
 Military Traffic (See Traffic)
 Mission (See also Commission) to France, 1275, 1428*
 Missouri, Kansas and Texas:
 Annual Report, 451*

Missouri, Kansas & Texas (Continued):

- Freight Claim Prevention, 463
- Passenger Fare Discrimination—Complaint to I. C. C., 159
- Prospects for 1920, 929†
- Reorganization—Coverdale and Kendrick Reports, 255†, 263, 341†, 365, 401*, 929†
- Station Efficiency Check, 111
- "Texas Special," Operated Jointly with the St. L.-S. F., 373, 383†
- Transportation Expenses, 401*
- Missouri Pacific: Elimination of Waste, 1221†
- Mixer (See Concrete)
- Monon (See Chicago, Indianapolis & Louisville)
- Monroe Calculating Machine, 458*
- Morgan's Louisiana & Texas: Loading Record with Lumber, 458*
- Motion Pictures (See Safety First)
- Motor Cars:
 - Inspection Car, Nichols, 682*
 - Mudge Types, 681*
 - Power Plant for Hand Cars, 65*
 - Railway Motor Car Company's Car, 556*
 - Southern Utah McKean Car, 148*
 - Train Rights; Western Maryland, 640
- Motor Drive for Shop Tools, 1395*
- Motor Trucks:
 - Circus Transportation, 281
 - War Service, 1449*
- Mount Union Collision: Pennsylvania, 371, 385†, 404*, 459, 615†, 730†, 988†, 1030†, 1056
- Muchnic, Charles M.: Russian Railway Situation, 908
- Mudge & Co.: Motor Cars, 681*
- Mutual Fire, Marine & Inland Insurance Company: Preserve as Well as Produce, 940
- M. W. Supply Company Rail Bender, Vaughan Type, 560*

N

- Nashville, Chattanooga & St. Louis: Supplies, Increased Cost of, 464
- National Association of Manufacturers: Elimination of Waste, 1221†
- National Association of Owners of Railroad Securities:
 - Freight Rate Advance Case, 1206, 1234
 - Meeting at Baltimore, 1107, 1130†, 1471†
 - Officers, 1497
- National Chamber of Commerce: Annual Meeting, 239
- National Defense (See also War; also Executive Committee):
 - Advisory Commission, 285, 308, 409, 434†
 - Army, Equipment Needed to Move an, 1003
 - Car Service Rules, 928†, 951, 988†*, 1134†, 1352
 - Committee (See Committee)
 - Conscription Endorsed by the Railways, 907, 925†
 - Council of National Defense Created, 285, 308, 409, 434†, 1321*
 - Dempsey Telegraphic Codes Adopted, 1111
 - Embargo on Arms to Mexico, 910
 - Guarding Railroad Property, 328, 940, 943*, 1445*
 - Labor Disputes During the War, 801
 - Passenger Service, Reductions in, 926†, 982†, 1092, 1159, 1163, 1185, 1255, 1500
 - Preparing for War, 817†, 824
 - President to Take Railroads, Bill to Authorize, 223, 825
 - Publicity Agents Offer Services, 851
 - Railroads' War Board's Organization, 769†, 777*, 817†, 824, 845*, 985†, 1267*, 1321*
 - Railroads' War Board's Work, 1092, 1145, 1322, 1474
 - Trespassers, A Warning to, 816†, 1130†
- National Fire Protection Association: Annual Meeting, 1044
- National Industrial Traffic League:
 - Central and Regional Committees Appointed, 1145, 1240
 - Demurrage Rules Approved, 757
- National Lumber Manufacturers' Association:
 - Car Service Rules, 802
- National Railway Appliances Association:
 - Annual Meeting, 552
 - Exhibit, Contest on, 170†, 286, 340†, 477†, 505*, 516†, 564†, 660†, 1139*
 - Officers and Members, 501*, 517
- National Safety Council: Bulletins on Safe Practices, 281
- National Scale Men's Association: Grain Scales and Grain Weighing, 1129†, 1155
- Newark, N. J. Traffic Club: Take Employees Into Your Confidence, 624
- New England Railroad Club: Electrification for Steam Railroads, 306
- New Jersey Bridge Commission, 852, 1250
- New Jersey Freight Rate Complaint, 71, 116, 159, 201
- New Jersey State Chamber of Commerce: Full Crew Law Investigation, 197, 371, 434†, 463, 646
- Newland's Committee (See Government Regulation)
- New Mexico: Freight Rates, Interstate, Increased, 1500
- New Orleans, Texas & Mexico: Valuation Protest, 154, 254†

- New South Wales: Interlocking on Government Lines at Flemington, 63*
- Newton Machine Tool Works, Inc.: Rail Drilling Machine, 410*
- New York Business Publishers' Association:
 - Conscription Endorsed, 907, 925†
 - Co-operation with the Government and Increased Postage Rates, 987†
- New York Central:
 - Annual Report, 874†*, 919
 - Bridge at Castleton, 192, 1205
 - Dudley, P. H., on Interior Transverse Fissures, 55*
 - Financing Plan Abandoned, 383†
 - Grade Separation Problem at Syracuse, 774*
 - Improvements in New York City, 1205
 - Insulation of Rails on Trough Floor of Harlem River Bridge, 616†*
 - Lubricator, Flange, 153*
 - Stock Sale, 125†
- New York Connecting Railroad Finished, 453*, 727†, 748*
- New York, New Haven & Hartford:
 - Annual Report, 930†*, 977
 - Automatic Train Stop, Webb, 789*
 - Electric Locomotives, Maintenance of, 129*
 - Elliott, Howard, Resolution to, 1066
 - Elliott, Howard, Succeeded by E. J. Pearson, 905*
 - Financial Problems, 905*
 - Organization, Divisional, 1111
 - Passenger Service, Reductions in, 1163
 - Shops for Electrical Equipment at Van Nest N. Y., 445*, 611†
 - Signal Lamps with Reflectors, 889*
- New York Railroad Club:
 - Electrical Night, 641
 - Railway Water Supply, 903
- New Zealand: Government Ownership Results, 872†
- Nichols, Geo. P. & Bro.: Inspection Car, 682*
- Ninth Street Terminal Warehouse Company, The: Warehouse at Cleveland, 1482*
- Norfolk & Western:
 - Annual Report, 768†, 771†*
 - Electric Locomotives, Maintenance of, 768†
 - Electric Operation, 641
 - Pension Department Established, 754
- Northern Pacific:
 - Accident Prevention, 1012
 - Bonus to Unorganized Employees, 1063
 - Bureau of Efficiency's Work, 851, 1012
 - Cars, Long Box, 1246*
 - Freight Train Time and Automatic Signals, 1424
- Northern White Cedar Association: Service Reports, 608*
- Nut, Roller Lock, 640*

O

Office:

- I. C. C.'s New Building, 1099
- Letter Files and Carbon Copies, 302†
- Machine, Monroe Calculating, 458*
- Machines, Labor Saving, in the Accounting Department, 1457
- Private Offices for Train Despatchers, 256†
- Reports, Eliminating Useless, 1326
- Supplies, Standardization of, 871†

Officer:

- Engineer in Railway Service, The, 82†, 300†, 432†, 437*, 727†, 1129†, 1150, 1470†
- Engineers as General Managers, 727†
- Engineers, Mechanical, at Convention of the A. R. M. M. Assn., 767†
- Engineers, Professional Ethics for, 599*
- Man Problem on the Railroads, 234
- Recriminations Between Railways, 1132
- Salaries and Work, 729†
- Salaries of Engineering Graduates in Railway Service, 1129†, 1150
- Superintendents and Discipline, 339†, 343†, 344†

Oil (See Fuel; also Lubrication)

Operating Efficiency (See also Electrification; also Train Despatching; also Train Operation):

- Car Inspection, Importance of, 101
- Clearance Records Essential to Military Operations, 1320
- Clerical Waste, Elimination of, 1326
- Co-operation Between the M. K. & T. and the St. L.-S. F., 373, 383†
- Freight Operation, Monthly Reports of, 1394
- Loads Distributed on Trains, 47†, 300†*, 615†, 731†*
- Performance Statements; M. K. & T., 401
- Schedules for Extra Trains, 3†, 5†
- Shortening Engine Districts, 982†
- Terminals in War Time, 1420*
- Tonnage, Conditions Affecting, 848, 945
- Track Capacity Increased by Signaling, 1423*
- Operating Income (See Finance)
- Organization (See also National Defense; also War):
 - American Gear Manufacturers' Assn., 754
 - Central of Georgia Accounting Department
 - Military Aid and Comfort Association, 1250
 - Chicago Regiment—The Third Reserve Engineers, 1196*, 1277*, 1278
 - Divisional: N. Y. N. H. & H., 1111
 - Man Problem on the Railroads, The, 234

Organization (Continued):

- Mechanical Department Conventions, Closer Co-operation for, 926†*
- Mechanical Department Efficiency, 683†, 691, 727†, 730†
- Meets, Athletic, 253†, 257*
- Officers and Salaries of, 729†
- Pacific Railway Club, 754
- Records, Eliminating Useless, 1326
- Security Holders, 1107, 1130†, 1471†, 1497
- Testing Department's Value, 339†

P

Pacific Railway Club:

- Military Aspect of Railroad Preparedness, The, 1412*
- Organization of, 754
- Wollmer, William S., on National Railway Efficiency, 1422
- Packing, Paxton-Mitchell Rod, 738*
- P. & I. Post Mould Company: Machine, Concrete Fence Post, 610*

Passenger Fares:

- Baggage Charges in Iowa, 373
- British Increases During War, 872†, 901
- Illinois Rate Case, 73, 81†, 117, 348, 967, 1069, 1116, 1208, 1223†, 1486, 1501
- Increases Throughout the World, 1110
- Long Island Railroad Increases, 719
- Missouri, Increases in, 757
- Missouri, Kansas & Texas and Interstate Fare Discrimination, 159

Passenger Service:

- B. & O. Circular to Conductors, 212†, 224
- Dining Car Service, Waste in, 1079†, 1467†
- Pullman Reservations, 1469†
- Reductions in, 926†, 982†, 1092, 1159, 1163, 1255, 1500
- Selling, 26

Passes (See Employee; also Legal Decisions)

Patent (See Legal Decisions)

Paxton-Mitchell Company: Rod Packing and

Swab Holder, 738*

Pay (See Employee; also Mail)

Pearson, E. J., 905*

Peking Gazette: Car Hire and Graft in China, 1221†, 1246

Pennsylvania Lines (See Pennsylvania Railroad)

Pennsylvania:

- Accident at Bristol, Pa., 371, 463
- Accident at Mount Union, Pa., 371, 385†, 404*, 459, 615†, 730†, 988†, 1030†, 1056
- Annual Report, 386†*, 427
- Athletic Meet at Altoona, Pa., 253†, 257*
- Bridge at Manayunk, Pa., 883*
- Car, Hopper, 391*
- Car Loading Record, 1162
- Car Loading Campaign, 833*, 1208, 1292
- Car Movement in May, 1255
- Car, Refrigerator, 179*
- County, A. J., on Railroad Conditions, 355
- Dixon, George D., on the Rate Advance Case, 852, 998

Embargo Committee, 374

Engineers as General Managers, 727†

Fires in 1916, 239

Hell Gate Bridge, 453*, 727†

Improvements in Baltimore, 154

Liberty Loan Plans, 1198

Locomotive Brick Arch Tests, 926†, 933*

Locomotive, Decapod Type, 1241*, 1471†

Locomotive, Electric, 1199*

Lumber Conference Committee Established, 466

Motion Pictures and Safety First, 318

Passenger Service, Reductions in, 1185

Paper, Waste, Collected, 239

Pension Changes, 281

Pier at Baltimore, 1089*

Relief Payments in 1916, 370

Scale, Track, at Pitcairn, Pa., 395*

School for Women Employees, 1407*

Signals, Position Light, 324*

Sprinklers for Freight Houses, 183*

Tests of an Atlantic Type Locomotive, 612†, 635*

Tests of Mikado and Consolidation Type Locomotives, 1176†, 1187*

Track Elevation at Johnstown, Pa., 1013*

Train Schedule from N. Y. to Philadelphia and Proposed War Measures, 982†

Western Union Telegraph Service, 1468†

Women, Employment of, 963, 1407*

Pension (See Employee)

Pere Marquette:

I. C. C. Report on, 891

Reorganization Plan, 41†, 839*, 891

Perolin Railway Service Company: Boiler Metal Treatment, 148

"Philadelphia Plan" of Railway Regulation, 240, 1066

Piers:

Baltimore & Ohio Pier and Car Dumper at Curtis Bay, 1226*

D. L. & W. Coal Dock at Buffalo, 185*

Duluth & Iron Range Ore Dock at Two Harbors, Minn., 303*

Pennsylvania at Baltimore, 1089*

Pierage (See Train Robberies)

Pipe:

Cast Iron, Life of; I. C., 1491

Grounding Devices, Fargo, 510*

Lead Welding Outfit, 680*

Pneumatic Placing Company: Concrete Mixing Improvements, 680*

Pole (See Ties and Timber)

Pooling (See Car Service)

GENERAL INDEX—Continued

[Illustrated articles are indicated thus *; Editorials thus †; Letters to Editor thus ‡.]

Portsmouth & Roanoke: Location, Report on, 752
Post Office (See Mail)

Posts:
Machine for Manufacturing Concrete Fence Posts, 610*
Report of A. R. E. Association, 516†, 525*
Steel Fence, 561*
Powdered Coal (See Fuel)
Power Top Car, Sheffield, 65*
Preparedness (See War; also Finance)
Press (See Public, The Railways' Relations with)

Pressed Steel Car Company:
Annual Report, 381
Erie Coaches, 1472*

Prest-O-Lite Company, Inc.: Lead Welding Outfit, 680*

Price (See Valuation; also Fuel—Coal)
Protective Materials Corporation: Trackline Weed Killer, 679*

Public, The Railways' Relations with:
Anybody Can Kick a Railroad, 6†
Business Management, Unintelligence in, 169†

Food Prices and Freight Rate Increases, 998
Food Waste in Dining Car Service, 1079†
Get Together and Do Some Thinking, 47†
Grade Crossings, Responsibility at, 431†
Interest of Private Property in Regulation, 601*

Labor Disputes and Public Interest, 198
Press and the Railroads, 960
Public Attitude Toward Railroads, 87
Pullman Reservations, 1469†
Selling Passenger Service, 26
Shippers and the Car Shortage Situation, 616†

Shippers and the Rate Advance Case, 818†, 837, 878
Shippers and the Transportation Problem, 5†
Shippers' Violations of Commerce Law in 1916, 433†
Supply Houses and Foreign Trade, 43†
Public Utility Commissioners, 685†, 687

Pullman Company:
Passes for Railway Employees, 300†, 615†, 734†
Reservations, Instructions Concerning, 1469†
Pump (See Water Service)
Purchases (See Equipment and Supplies)
Purdue University: Engineering Graduates, Occupations and Salaries of, 1129†, 1150

R

Rail:
Bender, Vaughan Type Samson, 560*

Drilling Machine, Newton, 410*
Insulating Rails on Trough Bridge Floors; N. Y. C., 616†

Problem, A New, 1062
Production Statistics, 936, 1138, 1360
Recorder, Baldridge Contour, 609*
Report of A. R. E. A. on, 544*
Rerolling by New Process, 1161*
Spikes Placed with Pneumatic Drills, 748*
Test, An All-Ingot, 896
Transverse Fissures, J. E. Howard on, 623, 1086†

Transverse Fissures, P. H. Dudley on, 55*
Railroads' War Board (See Executive Committee; also National Defense)

Railway Business Association:
Annual Dinner, 82†, 87
Committee on Freight Car Thrift, 1116
War Time Service, 936

Railway Car Manufacturers' Association: Goss, W. F. M., Elected President, 295
Railway Club of Pittsburgh:
Firebox Volume and Boiler Performance, 840*

Man Problem on the Railroads, The, 234
Railway Construction Corps, Canadian, 1300
Railway Development Association: Annual Convention, 1059

Railway Educational Bureau: Operating Conditions Affecting Tonnage, 848, 945
Railway Executives' Advisory Committee: Advertising for the Farmer, 459

Railway Fire Prevention Association: Fire Extinguishers on Passenger Cars, 21
Railway Motor Car Company of America: Car, A Novel, 556*

Railway Signal Association:
Annual Convention, 475†, 477†, 478*
Meeting in New York, 1248
Registration, 502, 565, 660
Report on D. C. Automatic Block Signaling, 499

Report on Direct Current Relays, 475†, 491*
Report on Electrical Testing, 494*
Report on Harmonizing of Specifications, 490*

Report on Lightning Protection, 485*
Report on Maintenance and Operation, 497*

Report on Mechanical Interlocking, 487*
Report on Signaling Practice, 477†, 479*
Report on Standard Designs, 483*
Report on Storage Battery and Charging Equipment, 499*

Railway Steel-Spring Company: Annual Report, 424

Railway Storekeepers' Association:
Conservation of Equipment, 624
Data in Annual Proceedings, 383†, 390†

Railway Supply Industry in the War, 1463*
Railway Supply Manufacturers' Association:
Convention Postponed, 852
Exhibitors at June Convention, 413, 801

Range Finder, Young, 369*
Ransome Concrete Machinery Company: Concrete Mixing Improvements, 680*

Rates (See Freight Rates; also Passenger Fares; also Interstate Commerce Commission Rulings)

Rea, Samuel: Freight Rate Advance Case, 908
Receivership (See Finance)

Reclaiming Material (See Scrap)
Reconsignment (See Car Service)
Record (See Organization)

Recorder (See Locomotive; also Rail)
Recreation (See Officer)

Reed, Eugene E.: Appointed President of Manila Railroad, 211†
Regiment (See War)

Regulation (See Government Regulation)
Reid-Newfoundland Railroad: Accident near Glenwood, N. E., 287

Reorganization (See Finance)
Repairs (See Maintenance of Equipment)
Report (See Office)

Resistance (See Train Resistance)
Resources, Railway, Conservation of, 1143
Revenues and Expenses:

Bureau of Railway Economics' Summary for Fiscal Year 1916, 253†, 262
Bureau of Railway Economics' Summary for October, 154; November, 326; December, 649; January, 768†, 800; February, 927†, 962; March, 1164; April, 1496

Expenses, Increases in, 728†, 767†, 768†, 1177†
Expenses, Operating, Monthly Analysis of, 21, 215†

Express Companies for October, 1916, 717
Express Companies for the Year 1916, 647
I. C. C. Statistics, 1891-1916, 213†
Net Operating Income for 1915 and 1916, 42†, 169†, 211†

Transportation Expenses Analyzed, 21, 215†
Transportation Expenses on the M. K. & T., 401*

Reinforced Rail Joint Company: Tests on Track Insulation, 314
Rigging (See Brake)

Road Building Should Be Encouraged, 984†, 1225†
Roadway, Report of A. R. E. A. on, 564†, 588*

Roberts & Schaefer Company: Rands Coal Loader, 559*

Rod (See Locomotive)
Rodenbur, John T.: Coach Step, 325*
Roller Lock Nut, 640*

Roofing (See Bridges and Buildings)
Roumania: Accident at Tshura, 198
Royal Commission of Canada: Report on the Railway Situation, 953, 957, 985†, 1081†, 1112

Rules (See Train Rules; also Car Service)
Russia:

Commission from America, 908, 1012, 1018, 1251, 1448*, 1490
Locomotives, Shortage of, 1490
Locomotives, War, 1383*, 1456*

Railway Situation, 1454

S

St. Louis: Controversy with the Terminal Railroad Association Settled, 1131†
St. Louis Brass Manufacturing Company: Lighting Fixtures, 557*

St. Louis Railway Club:
Election of Officers, 851
Locomotive Inspection Laws and Rules, Purposes of, 750

St. Louis-San Francisco:
Right of Way Rented for Garden Purposes, 754
Stations, Passenger, Standard Form of, 191*

Story of a Freight Car, 111
Supplies, Increased Cost of, 464
"Texas Special" Operated Jointly with the M. K. & T., 373, 383†

St. Paul & Tacoma Lumber Company: Lumber Loading Record, 1106†, 1208
St. Paul Union Depot Company: Station Plans, 1041*

Safety Appliances:
Inspection Service, 102
I. C. C. Grants Time Extension, 398, 1018, 1070

Safety First (See also Accident; also Grade Crossings)
Alabama Great Southern Awarded Harriman Memorial Medal, 753

Baltimore & Ohio Report for 1916, 852
Baltimore & Ohio Suggestions for Soldiers Guarding Railways, 1019, 1446*

Safety First (Continued):

Car Inspector and Safety, 101
Chesapeake & Ohio, 459
Full Crew Laws as Measures of Safety, 434†

Illinois Central, 411, 431†
Motion Pictures; Pennsylvania, 318
National Safety Bulletins, 281
Report of Division of Safety, 24

Salary (See Officer)
Savings (See Economic Practices)
Scale (See Weighing)

Schedule (See Train Operation)
School (See Education)
Scrap (See Economic Practices)

Screw Spike (See Spike)
Seaboard Air Line:
Bulletin on the Elimination of Waste, 1221†
Construction of Line from Hamlet, N. C., to Savannah, Ga., 941*

Portsmouth & Roanoke Railroad Location, 752

Security (See Finance)
Selling Passenger Service, 26
Semaphore (See Signaling)

Shipper (See Public, the Railways' Relations with)
Shoe (See Locomotive)

Shops:
C. B. & O., at West Burlington, 345*
Drawing Room Efficiency, 727†, 730†
Electricity, Application of, 1395*

Machine Tool Equipment, 254†, 386†
N. Y., N. H. & H. at Van Nest, N. Y., 445*, 611†
Scheduling System Advocated, 431†
Shop Man's Duties and Wages, 50

Shutter (See Car, Freight)
Signaling (See also Railway Signal Association):
Absolute-Permissive; L. & N., 134*

Annual Bulletin of the I. C. C., 1492
Automatic Block and Freight Train Time; No. Pacific, 1424

Automatic Block; Chic., Ind. & Louisville, 834*

Automatic Train Stop, Webb, 789*
Battery Charging Sets; I. R. T., 238*

Battery, Waterbury R. S. A. Primary, 511
Bell, U. S. & S. Crossing, 561
Blue Safety Device, 1494*

Caution Signal, Disregarding the, 730†, 988†, 1180†
Conduits Installed in Retaining Walls; C. R. I. & P., 405*

Flagging and Yard Limit Boards, 988†
Flagging Unnecessary, 773†
"Flagman, Automatic," Three-Aspect, 65*

Flash-Light Crossing Signal, 1061*
"Hold-Main" Signals at Lafollette; L. & N., 1203*

Hudson Signal near Richmond; C. & O., 110
Illinois Central Main Line, 1160*

Interlocking at Flemington, New South Wales, 63*
Interlocking in the Dallas Terminal, 279*

Lamps with Reflectors; N. Y., N. H. & H., 889*

Lock, G. R. S. Electric Bolt, 514*
Maintenance Work, 1427

Motor Car Operation; West Maryland, 640
New York City; I. R. T., 379

Position Light Signals; Pennsylvania, 324*
Report of A. R. E. Association, 522*
Semaphores for Highway Crossings, 1040*

Union Switch Movement and Other Developments, 512*
War and Track Capacity, 1423*

Signs:
Report of A. R. E. Association, 516†, 525*
Track; Canadian Pacific, 551*

Sill (See Draft Gear)
Simonds, Frank H.: British Armies in France, 784

Slag (See Concrete)
Smith, A. H.: Minority Report on the Canadian Railway Situation, 957, 985†

Snow Protection on the Southern Pacific, 626*
Society of Terminal Engineers, 198
Southern Hardwood Traffic Association: Rate Advances Opposed, 910

Southern Pacific:
Car Loading Statistics, 33
Central Pacific Separation Suit of the Government, 651, 683†, 702

Land Grant Suit, Government Wins, 912
Materials, Increased Cost of, 1165
Ownership of Atlantic Steamship Lines, 416

Snow Sheds and Fire Protection System, 626*
Telegraph School, 1163
Track Inspection Results, 851

Transverse Fissure Problem—Accident near Iser, Texas, 623, 1086†
"Wagonette" Lunch Service, 838*

Southern Pine Association: Study of Timber, 297†
Southern Railway:
Apprentice Squad, 802
Financing Plan Abandoned, 383†

Southern Railway (Continued):

- Locomotives, Duplex, 267*
- Passenger Service, Reductions in, 1159
- "Tennessee Curve," 285
- Southern Utah: Motor Car, McKeen, 148*
- Spain: Locomotives for the Madrid, Zaragoza & Alicante, 285*
- Spanish-American War and the Railways, 1394
- Special Committee on National Defense (See American Railway Association)
- Special Committee on Relations of Railway Operation to Legislation:
 - Equipment Statistics, 1467†, 1492
 - State Laws, New, 767†, 791
- Speed Recorder (See Fuel)
- Spike (See Rail)
- Sprinkler (See Fires)
- Stadia Instrument, Young Hand, 369*
- Standard Code (See Train Rules)
- State Commissions:
 - California: Grade Crossing Survey, 340†, 349*
 - Fiscal Year Change, 111
 - Illinois:
 - Passenger Rate Case, 73, 81†, 117, 348, 967, 1069, 1116, 1208, 1223†
 - Reconsignment of Coal Cars, 114, 158
 - Iowa: Baggage Charges, 373
 - Legislation, New, 767†, 791, 1197
 - Loading, Heavier, Campaign, 1438
 - Members of, Salaries, etc., 685†, 687
 - Nebraska: Car Distribution Rules, 1069
 - New York:
 - Annual Report of First District, 116
 - Annual Report of Second District, 72, 253†
 - Texas: Shreveport Rate Case, 222
 - Utah: Public Utilities Act, 911
- State Commission Rulings:
 - Illinois: Five Per Cent Rate Case, 719, 757, 802
 - Louisiana:
 - List of Cars in Freight Service, 759
 - Texas & Pacific Fined for Failure to Comply with Signaling Order, 288
 - Missouri: Rate Increases, 757
 - New Mexico: Interstate Freight Rates, 1500
 - New York:
 - Passenger Fare Increases, L. I., 719
 - Security Issues, 253†
 - Pennsylvania: Standard Crossing Signs, 961
 - Virginia: Tidewater & Western's Difficulties, 1210, 1257
 - Wisconsin: Freight Rate Revision, 199
- State Regulation (See State Commissions; also Government Regulation)
- Station:
 - Cincinnati's Project, 327
 - Delaware, Lackawanna & Western at Buffalo, 227*
 - Design, Curbing Extravagant, 1129†
 - Macon Union Passenger Facilities, 693*
 - Passenger, Standard; St. L. & S. F., 191*
 - Pennsylvania at Johnstown, Pa., 1016*
 - St. Paul Union, 1041*
- Statistics:
 - Analysis and Costs, 297†
 - Average Car Capacity and Average Load per Loaded Car, 1904-1916, 1283*
 - Block Signals, Jan. 1, 1917, 1492
 - Bureau of Railway Economics Returns for 1916, 253†, 262
 - Canadian Railway Results for 1916, 887
 - Car Loading, So. Pacific, 33
 - Car Supply and Car Mileage, 1907 to 1916, 127†, 145*
 - Cars and Locomotives Ordered in 1916, 28
 - Cars and Locomotives Ordered in 1917, 297†, 1031†, 1463*
 - Coal Shipments to Chicago, 1175†
 - Equipment Exports for Eight Months, 1092
 - Equipment, Steel Passenger, 1467†, 1492
 - Grain and Flour Shipments from Chicago, 1131†
 - I. C. C. Figures of Earnings and Taxes, 1891-1916, 83†, 213†
 - I. C. C. Work, Increase in, 1488
 - Monthly Analysis of Operating Expenses, 21, 215†
 - Poles Purchased in 1915, 716
 - Rail Production in 1916, 936, 1138, 1360
 - Rate Increases Throughout the World, 1110
 - Taxation Figures, 1897-1916, 83†, 213†
 - Track Materials Produced in 1916, 1138
 - Trainmen's Earnings in 1916, 454
- Step (See Car)
- Stillwell, L. B.: Erie All-Steel Coaches, 1472*
- Stock (See Finance)
- Strainer (See Locomotive)
- Street Stoker and Grate Area Limitations, 196
- Strike (See Employee)
- Sub-Committee (See Committee)
- Sunset Central Lines: Loading Lumber, Record for, 458*
- Superintendent (See Officer)
- Supplies (See Equipment and Supplies; also Office)
- Supply, Railway, Industry in the War, 1463*
- Swab Holder, Paxton-Mitchell, 738*
- Sweden: Accident at Soderhamn, 370

T

- Tackle (See Hoisting and Conveying)
- Tanana Valley Railroad: Purchase by Government, 1205
- Tax (See Finance; also Legal Decisions)
- Telegraph (See also Association of Railway Telegraph Superintendents)
- Telegraph:
 - Dempsey Codes Adopted by National Defense Committee, 1111
 - Southern Pacific's School, 1163
 - Western Union on the Pennsylvania, 1468†
- Telephone and Telegraph Mobilized for War Purposes, 1419
- Terminal (See Yards and Terminals)
- Terminal Railroad Association: Controversy with City of St. Louis Settled, 1131†
- Test Department's Value—Locomotives on the Pennsylvania, 339†, 612†, 635*, 1176†, 1187*
- Texas: "Full Crew" Bill, 1029†, 1050
- Texas Midland: Valuation Hearings Before the I. C. C., 171†, 193, 212†, 225, 285, 412, 451, 644, 747
- Third Reserve Engineers Organized, 1196*, 1277*, 1278
- Thomas, E. B., 352*
- Ticket:
 - Multi-Route Interline; C. & N. W., 1148*
 - Pullman Reservations, 1469†
- Tidewater & Western: Dissolution Request, 1210, 1257
- Ties and Timber (See American Wood Preservers' Association):
 - Cars, Tie; A. T. & S. Fe, 749*
 - Cresote Treatment of Douglas Fir Ties by Perforations, 783*
 - Crib Retaining Walls; C. R. I. & P., 735*
 - Grading of Lumber; A. R. E. A. Report, 660†, 667*
 - Lumber Conference Committee, 466
 - Lumber Loading Record, 458*, 719, 1106*
 - Lumber, Resawing; C. B. & Q., 946*
 - Northern White Cedar, Data on, 608*
 - Poles Purchased in 1915, 716
 - Preservation Department; B. & O., 1489
 - Report of A. R. E. Association, 563†, 574*
 - Study of Timber, Co-operative, 297†
 - Timber Protection Methods; A. T. & S. Fe, 7*
 - Wood Preservation; Report of A. R. E. A. on, 671*
- Tile (See Concrete)
- Toledo Transportation Club: Problems, W. M. Daniels on, 19
- Tonnage (See Train Loading)
- Tools (See Equipment and Supplies)
- Tornadoes Damage I. C. Property, 1164
- Track:
 - Connector, Coleman Bond-Wire, 1493*
 - Drilling Screw Spikes Pneumatically, 748*
 - Frog, Manganese, Design of, 1192*
 - Grinder, Swing Frame, 559*
 - Inspection, Annual; So. Pacific, 851
 - Labor Shortage, 384†, 1314*
 - Materials Produced in 1916, 1138
 - Report of A. R. E. Association, 566*
 - Scale, Plate Fulcrum; Pennsylvania, 395*
 - Snow Cleared by Steam; C. B. & Q., 286
 - Stresses, Report of A. R. E. A. on, 550*
 - Tests of Insulation Fibre, 314
 - Weed Killing Methods, 557*, 679*
- Track Capacity Increased by Signaling, 1423*
- Track Elevation at Johnstown; Pennsylvania, 1013*
- Tractor (See Truck)
- Traffic (See also National Industrial Traffic League; also National Defense; also War):
 - Chicago Electrification Problem, 86†
 - Coal Shipments to Chicago, 1175†
 - Co-operation Between the M. K. & T. and the St. L.-S. F., 373, 383†
 - Equipment to Move an Army, 1003
 - Grain and Flour Shipments from Chicago, 1131†, 1175†
 - Handling Troops and Supplies on Canadian Railways, 1302
 - Inauguration Day at Washington, 393
 - Military, Transportation of, 1327*, 1334
 - Passenger Traffic, Increasing, 26
 - Terminal Operation in War Time, 1420*
 - Traffic Club of Chicago: Election of Officers, 757
 - Traffic Club of Jacksonville: Regulation Needed, A. 197
 - Traffic Club of Pittsburgh: Election of Officers, 1499
- Train Density (See Track Capacity)
- Train Despatching:
 - Dempsey Codes Adopted by National Defense Committee, 1111
 - Form G3, Usefulness of, 3†, 5†, 86†
 - Orders, "19" and "31", 1425
 - Private Office for the Despatcher, 256†
 - Savings by the Despatcher, 442, 1471†
 - Study of Language Problems—Some Needed Forms, 1192
 - Yard Limit Boards Needed, 988†
- Train Handling:
 - Brake Usage, 1006, 1007
 - Breaks-In-Two, Reducing; A. T. & S. Fe, 900
- Train Line Maintenance, 319

Train Loading:

- Canadian Railway Results for 1916, 887
- Contest on Increasing the Train Load, 171†, 299†, 611†, 1401*
- Distribution of Loads in Trains, 47†, 300†*, 615†, 731†*, 932†
- M. K. & T. Performance Sheets, 401
- Tonnage Affected by Operating Conditions, 848, 945
- Trainman (See Employee—Wages)
- Train Operation (See also Operating Efficiency):
 - Automatic Signals and Freight Train Time; No. Pacific, 1424
 - Motor Car Rights; W. M., 640
 - Schedules for Extra Trains, 3†, 5†
- Train Order (See Train Despatching)
- Train Resistance:
 - Tests by the University of Illinois, 407*
 - Wheel's Thrust Against Rail on Curves, 300†, 615†, 731†*, 932†
- Train Robberies: Freight Containers Faulty, 613†, 773†
- Train Rules: Form G3, Usefulness of, 3†, 5†, 86†
- Train Stop (See Signaling—Automatic)
- Trains, Ambulance, 1439*
- Trains, Armored, in Italy's Navy, 939*, 1374*
- Trains, Demonstration, 1378*
- Transcontinental Rate Case, 743, 794
- Transit, Warren-Knight Sterling, 559*
- Transportation of Military Traffic, 1327*, 1334
- Transportation Club of Detroit: Election of Officers, 1208
- Transverse Fissures (See Rail)
- Traveling Engineers' Association: Indorsement of Proprietary Devices, 611†, 614
- Travers, Marie, Miss, a "Flagwoman" on the B. & O. Southwestern, 1062*
- Trespassing (See Accident)
- Truck:
 - Articulated Tender, 744*
 - Resistance on Curves, 300†, 615†, 731†, 932†
 - Scales for Automobiles; B. & O., 1239*
 - Tractors and Trailers for Handling L. C. L. Freight, 792
- Tuco Products Corporation Organized, 1504*
- Tunnel:
 - Canadian Pacific at Rogers Pass, 273*
 - Hudson River Wagon Road, 852, 1250

U

- Uniforms for Women Car Cleaners, 1085†
- Union Pacific:
 - Annual Report, 4†, 1082†
 - Bridge Reconstructed at Omaha, 95*
- Union Switch & Signal Company:
 - Crossing Bell, 560
 - Fire at Swissvale, Pa., 294, 327
 - "Flagman, Automatic," Three-Aspect, 65*
 - Interlocking in the Dallas Terminal, 279*
 - Merger with the Westinghouse Air Brake Company, 123
 - Movement, New, and Other Developments, 512*
- United States Circus Corporation: Travel by Motor Trucks, 281
- United States Department of Agriculture: Poles Purchased in 1915, 716
- United States Steel Corporation:
 - Annual Report, 656
 - Earnings, 208
- University of Illinois: Train Resistance Tests, 407*
- University of Pennsylvania: School for Women, 1495
- Unloader (See Hoisting and Conveying)
- Utility Bureau: Rate Advances, Protest Against, 852

V

- Valuation:
 - Advisory Board, 169†
 - Atlanta, Birmingham & Atlantic, 171†, 193, 212†, 225, 645, 747
 - Continuation Inadvisable, 796, 986†, 1417
 - Depreciation and Land Values, 225, 712, 746, 747
 - Depreciation—Testimony of W. B. Storey and D. F. Crawford, 1406
 - Elgin, Joliet & Eastern, 323, 714
 - Hulme, T. W. on the Six Tentative Valuations, 323
 - I. C. C. Hearings on Carriers' Protests, 139, 154, 171†, 193, 212†, 225, 285, 412, 553, 563, 606, 644, 711, 745
 - Kansas City Southern, 139, 254†, 745
 - Mechanical Valuation Committee, 351
 - New Orleans, Texas & Mexico, 154, 254†
 - Prices, Unit, Hearing on, 451
 - Progress, 68, 961
 - Reproduction Cost and Tentative Valuations, 254†
 - Rights of the Carriers, 1133†
 - Texas Midland, 171†, 193, 212†, 225, 285, 412, 451, 644, 747
 - Winston-Salem Southbound, 110, 323
- Ventilation: Shutter for Box Cars, 190*
- Verdun (See France)
- Virginian Railway: Locomotive, Triplex Compound, 141*

GENERAL INDEX—Continued

[Illustrated articles are indicated thus *; Editorials thus †; Letters to Editor thus ‡.]

W

- W. & L. E. Gurley: Rail Recorder, 609*
 Wabash: Mattress of Wire Mesh for Bank Protection, 321*
 Wagonette (See Car)
 Walls, Crib Retaining; C. R. I. & P., 735*
 Walter Concrete Machinery Company: Roofing Tile, 562*
 War, The (See also National Defense):
 Ambulance Trains, 1439*
 American Mission to France, 1275, 1428*
 American Railways Since the Civil War, 1387*
 American Railways' War Service, 981†, 997, 1269†, 1422
 America's Army of Railway Protectors, 943*
 Associations, Railway, Service of, 1176†
 Bath Trains, 1306
 Bridge Renewals, 1434*
 British Railway Operation, 872†, 901, 1271*
 Camps, Location of, 1339*
 Canadian Railways' Part, 1299*
 Car Conservation a Patriotic Duty, 1175†
 Car Shortage (See Car Service)
 Clearance Records Essential to Military Operations, 1320
 Coal Supply, The, 932†, 1295*
 Construction Activities, 1309*, 1468†
 Conventions, Postponement of, 871†, 1208
 Employees on the Baltimore & Ohio, 1306
 Employees Who Enlist, 1301, 1348, 1411
 Equipment Built in America and Canada for European Countries, 1463*
 European Wage Demands and Freight Rate Increases, 265
 European Railway Situation, 1453
 Europe, Traveling in, 231
 Europe's Transportation Muddle, 189
 Finance, Effect on, 1431
 Food Problem, 1376*, 1467†
 France, Mission to, 1275, 1428*
 Front, Railways Behind the, 1449*
 Fuel Situation, The, 1295*
 Governments and the Railways, 1030†
 Immigration After the War, 739
 Industrial and Railway Efficiency, 1341*
 Influence of Railways on Warfare, 1332*
 Italian War Commission, 1063*
 Italy's Armored Trains, 939*, 1374*
 Italy's Railroad Organization, 57*
 Labor, American and British, 1367*
 Labor Problem, 1314*, 1341
 Liberty Loan, 1058, 1079†, 1094, 1149, 1197, 1206, 1249, 1433
 Light Railways, 1364*
 Loans, European War, Advertising, 816†, 835*
 Locomotives Built in America, 1456*, 1463*
 Locomotive Maintenance, 1343*

War, The (Continued):

- Locomotives, Small, at the Front, 1383*
 Maintenance of Way Labor Problem, 1314*
 Mechanical Men, Enlistment of, 1411
 Passenger Service, Reductions in, 926†, 982†, 1092, 1159, 1163, 1185, 1255, 1500
 Preparedness, Railroad, 1412*
 Priority Bill, 1312, 1486
 Protecting Railroad Property, 328, 940, 943*, 1445*
 Protection of European Railways, 715
 Regiments, American Engineering, 871†, 895, 1004, 1093, 1099, 1138, 1196*, 1274*
 Regulation, Effect of, 1415*
 Reports, Eliminating Useless, 1326
 Russia, American Railway Commission to, 908, 1012, 1018, 1251, 1448*, 1490
 Signal Situation, 1423*
 Taxation Bill, 1003, 1061, 1098
 Telephone and Telegraph Mobilized, 1419
 Terminal Operation, 1420*
 Traffic, Military, Transportation of, 1327*
 Trespassing Danger, 816†, 1130†
 Verdun, Attack Upon, 1450*
 Willard, Daniel, on, 1011, 1307*
 Women Employees, 963, 1062*, 1066*, 1085†, 1163, 1303*, 1407*, 1457, 1496
 Y. M. C. A.'s Service, 1280*
 Warehouse (See Bridges and Buildings)
 Warren-Knight Company: Transit, Sterling, 559*
 Washington Correspondence (See also separate headings), 824
 Washington Traffic Club: Pressing Railroad Problems, 285
 Waste (See Economic Practices)
 Waterbury Battery Company: Primary Battery Cells, 511
 Waterloo Cement Machinery Corporation: Mixer, 562*
 Water Service:
 Boiler Troubles Investigated, 359*
 Pump, Air Displacement, 679*
 Pumping Head, Electrically Driven, 561*
 Report of A. R. E. Association, 529*
 Sales of City Water to Railroads, 740
 Sprinklers, Automatic, Pennsylvania, 183*
 Supply and Cost, 740, 903
 Waybill (See Freight)
 Webb, Jean F., Jr.: Automatic Train Stop, 789*
 Weber Subterranean Pump Company: Air Displacement Pump, 679*
 Weed (See Agriculture)
 Weighing:
 Grain Scales, 1129†, 1155
 Scale, Plate Fulcrum Track; Pennsylvania, 395*
 Scales, Automobile Truck; B. & O., 1239*
 Welding:
 Electric, 1398*
 Prest-O-Lite Gas for Lead, 680*
 Western Maryland:
 Accident at Knobmount, W. Va., 3†

Western Maryland (Continued):

- Annual Report, 1177†*, 1214
 Motor Car Operation, 640
 Western Pacific:
 Car Loading Efficiency, 773†
 Train Despatching—Rule 93, 861
 Western Union Telegraph Company:
 Contract with the Baltimore & Ohio, 326
 Eight-Hour Day for Telegraphers, 718
 Pennsylvania, Service on the, 1468†
 Westinghouse Air Brake Company: Merger with the Union Switch & Signal Company, 123
 Westinghouse, Church, Kerr & Co.: C. B. & Q. Shops at West Burlington, 345*
 Wharton Steel Company: Sale to J. Leonard Replogle, 123
 Wheel:
 Chilled Iron Car, 278
 Thrust Against Rail on Curves, 300†*, 615†, 731†*
 Whitman, Paul P.: Investigation of Transportation Facilities Abroad, 411
 Willard, Daniel: Railways in the War, 1011, 1307
 Williams, F. B., Cypress Company: Lumber Loading Record, 458*, 719
 Willys-Overland Company: Unloading Automobiles, 1157*
 Wine Railway Appliance Company:
 Roller Bearing, Self-Centering, 196*
 Shutter, Car Ventilating, 190*
 Winston-Salem Southbound Railway: Valuation, Tentative, 110, 323
 Wire:
 Connector, Coleman Bond, 1493*
 Crossings, 881
 Wollner, William S.: Railway Service in War, 1422
 Women (See Employee)

Y

- Yards and Terminals:
 Billing at Large Terminals, 49
 Chicago Terminal Electrification Plans, 86†, 126†
 D. L. & W. at Buffalo, 227*
 Dock (See Piers)
 Elevators, Government, at Seaports, 1087†
 Engine Terminal, The, 1346
 Macon Union Terminal, 693*
 New York Central in New York City, 1205
 Operation in War Time, 1420*
 Relocating Terminals to Shorten Engine Districts, 982†
 Report of A. R. E. A. on, 583*, 792
 Scrap Yard, Central, 25
 Warehouse in Cleveland, 1482*
 Yard Limit Boards and the Flagman, 988†
 Yard Service and Terminal Service, 42†
 Young, R. C.: Range Finder, 369*
 Y. M. C. A.:
 Sugimoto, Y., on, 17
 War Time Activities, 1280*

NEW BOOKS

- American Railway Association: Proceedings; Volume VII, 1912 to 1915, 173
 Construction and Maintenance Costs, 299
 Debaters' Handbook on Government Ownership of Railroads, 686
 Design of Railway Location, The, 987
 Fuel Association Proceedings, 214
 General Foremen's Association Proceedings, 214
 Government Partnership in Railroads, 1179
 Handbook on Wood Preservation, 84
 How the World Makes Its Living, 85
 How to Protect Your Factory from Fire, 389
 Instructions to Locating Engineers, 389
 Law of Interstate Commerce and Its Federal Regulation, The. (Third edition), 1225
 List of Publications Pertaining to Government Ownership of Railroads, 729

- Master Blacksmiths' Proceedings, 614
 Municipal Ownership Fails in U. S. A., 1225
 Pipe and the Public Welfare, 256
 Poor's Manual of Railroads, 1917, 773
 Preservation of Structural Timber, The, 46
 Principles of Railroad Transportation, 84
 Procedure Before the Interstate Commerce Commission, and Grounds of Proof in Rate Cases, 214
 Proceedings of the American Railway Bridge and Building Association, 987
 Proceedings of the American Society for Testing Materials, 299
 Proceedings of the Railway Storekeepers' Association, 436
 Proceedings of the Traveling Engineers' Association, 614

- Railroad Problem, The, 1132
 Railway Estimates, 1470
 Railway Freight Connections and Car Interchange Points, 342
 Rate Extension Tables, 772
 Statistics of Common Carriers, 1916; Preliminary Abstract, 299
 Statistics of Railways, 1905-1915, 173
 Steel Railway Bridges, 84
 Stresses in Structural Steel Angles, 1470
 Tables for Computing the Compensation of Railway Employees Under the Eight-Hour Law, 1179
 Tool Foremen's Association Proceedings, 173
 Wharves and Piers, 877
 Workmen's Compensation Law of the United States and Foreign Countries, 823

ELECTIONS AND APPOINTMENTS

[* Indicates photograph and sketch. ‡ Indicates sketch only.]

- Abbott, Hunley, 1170
 Abernethy, D. S., 972
 Abington, W. T., 1073
 Acers, R. C., 1504
 Ackerman, A. H., 380, 764
 Adams, C. McD., 1218
 Adams, H. M., 1125, 1264*
 Adams, T. T., 858
 Agnew, D. W., 805
 Aigeltinger, Arthur, 77
 Aiken, E. N., 164, 291*
 Akridge, T. B., 1172
 Alexander, Walter, 858
 Alford, L. P., 422, 860
 Alfred, Frank H., 840*, 857
 Allen, B. L., 653, 805†

- Allen, J. E., 1073
 Allen, N. C., 291
 Allen, P. C., 75
 Allen, Stuart, A., 377, 420*
 Allison, Smith E., 337
 Alquist, P., 163
 Anderson, H. F., 75
 Anderson, Irving, 915, 1173
 Anderson, J. E., 335
 Anderson, S. H., 1506
 Andrews, W. H., 249
 Andrews, W. S., 121, 163
 Ansley, H. C., 203
 Archer, P. C., 245
 Arms, Robert L., 472
 Armstrong, A. G., 654

- Armstrong, H. T., 77
 Armstrong, R. W., 913
 Armstrong, S. E., 470
 Arn, W. G., 1025, 1266
 Arnold, Brent, Jr., 335
 Arnold, C. R., 760
 Ashby, Edward B., 973*
 Astley, Harry E., 1127, 1509†
 Atkins, E. G., 334, 377
 Atkinson, A. R., 654, 1073*, 1510
 Atwill, William, 761
 Austin, Frank S., 762, 807†
 Ayers, L. C., 1508
 Baals, D. S., 857, 858, 915
 Bachellor, R. M., 75, 120*

- Backes, William J., 1126
 Backus, Frederick F., 1125
 Bacon, J. L., 656†
 Bacon, S. D., 120
 Baetz, H. F., 1506*
 Bailey, F. W., 36
 Bailey, William M., 249
 Baird, Milton A., 915
 Baisinger, W. C., 915, 1173
 Baker, Charles W., 975
 Baker, H. F., 760
 Baker, Horace, 119
 Baldwin, Arthur J., 381
 Baldwin, L. W., 294
 Baldwin, William A., 914
 Ball, Russell, 378

- Banker, E. H., 290
 Bannon, J. B., 164
 Bardgett, E. R., 120, 205
 Bardo, C. L., 1126
 Bardwell, R. C., 471
 Barhite, John A., 332
 Barnes, F. D., 1509
 Barnes, O. F., 1025
 Barnett, Otto R., 764, 860
 Barnhart, R. E., 973
 Barnum, Morgan K., 203*, 205
 Barnum, William M., 380
 Barry, John G., 975*
 Bartlett, A. L., 1174
 Barton, D. E., 915
 Bashford, Edward E., 202
 Bast, P. E., 806
 Bates, W. W., 1217
 Bath, J. M., 913
 Batt, W. L., 166
 Bauchen, F. A., 761
 Bauman, E. G., 206
 Baumgardner, J. A., 1216
 Baxter, Ernest, 974, 1128*
 Beal, F. L., 1024, 1127†
 Beath, C. G., 290
 Bebb, J. E., 36
 Beckler, W. A., 164, 247*
 Bectel, B. T., 1026
 Beecham, W. E., 913
 Bedford, A. C., 249
 Begien, Ralph N., 722
 Behnke, C. B., 205
 Behring, F. H., 164
 Bell, A. D., 1127, 1218*
 Bell, C. E., 164
 Bell, W. I., 205
 Bender, George W., 39†
 Bendixen, J. H., 1504
 Bennett, E. W., 120
 Bennett, F. K., 420, 471†
 Bennett, F. G., 74
 Bennett, James C., 1506
 Bennett, R. G., 378
 Bennett, W. H., 973
 Bennett, W. J., 1024
 Benning, F. M., 377, 419
 Benson, Roy, 37
 Bent, Charles L., 1025
 Bentley, Walter H., 1211
 Benton, H. A., 972
 Benus, G. W., 1024
 Bergeld, A. L., 1508
 Berlingett, James, 419
 Bernhardt, J. E., 1219
 Berry, George W., 761
 Best, J. A., 421
 Betson, Claude, 915
 Bettendorf, J. W., 1504
 Betts, Amos A., 34*
 Bewley, W. C., 36
 Biddle, W. B., 74, 109*
 Bienemann, W. J., 116
 Bierman, William, 295
 Bieth, R. J., 1219
 Bigler, H. F., Jr., 808
 Biles, George P., 164
 Bill, D. J., 246
 Bill, F. A., 74
 Billups, Joseph P., 1509
 Bilyeu, C. S., 656
 Bingham, S. H., 77
 Bissell, E. R., 1125
 Blackie, George F., 37*
 Blackmore, G. A., 123
 Blanchard, F. C., 860*
 Blanchard, W., 760
 Blauevelt, Martin P., 1508*
 Blodgett, Lester E., 1220
 Blomeyer, E. F., 1508
 Blum, Bernard, 205, 973
 Blunt, J. G., 78*
 Blydenburgh, R. R., 75
 Boardman, F. W., 204
 Bock, Karl W., 1504
 Bodkin, John A., 860
 Bodler, F. F., 975
 Bolopuo, P. A., 246
 Bond, F. L. C., 722
 Bond, Lewis H., 1266
 Booth, W. F., 469
 Booth, W. L., 1217
 Borrett, O. W., 74
 Borrowdale, J. M., 722, 917
 Bouck, J. B., Jr., 249
 Boudell, J. D., 913
 Bourne, John D., 1172
 Bourne, L. S., 857
 Bowe, John P., 761
 Bowen, C. H., 1126
 Bowler, G., 245
 Boyer, E. S., 250
 Boykin, R. H., 1025
 Boyle, J. H., 291
 Boynton, E. H., 75
 Bradford, C. C., 77, 380, 764
 Bradley, Ralph, 1220
 Brady, D. F., 761
 Brady, F. P., 1265
 Brady, Philip, 973
 Brady, P. J., 914
 Brady, T. J., 75, 204*
 Bray, J. W., 1024
 Breed, Charles W., 1025
 Breen, F. M., 377
 Breen, J. M., 335
 Bremner, William H., 805, 1023†, 1050*, 1216
 Brennan, E. J., 1074
 Brereton, J. S., 469
 Bridge, F., 915
 Briery, E. J., 722
 Briggs, E. S., 1024
 Brigham, D. S., 1072
 Brigham, H. H., 805
 Brinckerhoff, H. G., 166
 Briney, Mark R., 472
 Brinkman, J. H., 1510
 Brinser, C. E., 806
 Bristow, George, 164
 Brittain, J. S., 291
 Bromley, A. H. Jr., 209
 Brookings, J. H., 1220
 Brookmeyer, O. F., 119
 Brooks, F. S., 291
 Brooks, W. E., 1217
 Broome, S. P., 808
 Broughton, M. H., 1125
 Brown, A. A., 761
 Brown, A. L., 1074
 Brown, B. G., 246, 420†
 Brown, Charles A., 74
 Brown, Clinton, 337
 Brown, C. B., 1265
 Brown, C. W., 419, 470†
 Brown, E. L., 652, 805
 Brown, E. N., 839*, 857
 Brown, F. W., 163
 Brown, Franklin O., 760
 Brown, George M., 337
 Brown, H. M., 1218
 Brown, J. H., 246
 Brown, J. L., 913
 Brown, Louis L., 860
 Brown, L. D., 763
 Brown, M. H., 857
 Brown, R. A., 1220
 Brown, Thatcher, 1027
 Browne, L. L., 1217
 Browne, Oliver G., 203
 Browning, B. W., 36, 119†
 Bruce, L. V., 75
 Brule, W. A., 1024
 Bruner, F. J., 760
 Brunswick, Walter, 1120
 Bryan, M. C., 1127
 Bryning, H. B., 1218
 Buchannon, W. F., 74, 203
 Buckbee, E. J., 471
 Buddin, G. R., 163
 Buell, B. John, 917
 Buford, C. H., 761, 805
 Buker, J. E., 764
 Burch, H. F., 913, 1125
 Burd, J. L., 419
 Burden, I. Townsend, 294
 Burgess, Kenneth F., 972, 1023*
 Burgess, S. E., 291
 Burgert, Garrett, 1505
 Burns, J. B., 654
 Burns, J. L., 1264
 Burr, C. E., 1125
 Burrell, C. F., 807
 Burress, J. R., 860
 Burrows, John J., 419
 Burry, V. J., 975
 Burt, J. W., 205
 Burtner, J. H., 377
 Burton, James Jr., 36
 Bury, George J., 1207†
 Bush, Benjamin F., 1125
 Bussing, G. H., 1264
 Butcher, R. E., 1174
 Butler, C. A., 245, 246
 Butler, W. R., 75
 Butler, W. W., 39
 Caffey, W. H., 420
 Cahill, R. E., 1509
 Caldwell, E. J., 501†, 656, 724*
 Caldwell, George K., 164, 246†
 Caldwell, W. T., 163
 Call, Norman, 972
 Callahan, J. E., 913
 Callahan, J. J., 1220
 Campbell, Edward A., 761†
 Campbell, E. H., 653
 Campbell, P., 1217
 Campbell, P. G., 1126
 Campbell, R. C., 205
 Campbell, W. L., 291
 Campbell, W. S., 805, 857*
 Candler, C. L., 204
 Cannon, J., 1217
 Cantrell, S. T., 1509
 Capps, O. B., 1505*
 Card, Joseph B., 77
 Carlander, Axel, 1027
 Carlisle, James G., 164*, 1217
 Carlton, A. E., 1264
 Carlton, C. E., 75
 Carlton, L. G., 1264
 Carr, R. F., 377
 Carrell, F. J., 1125
 Carrero, F. E., 654
 Carroll, J. H. Jr., 1510
 Carroll, Phil., 36
 Carry, E. F., 764
 Carse, John B., 1075
 Carson, Cassius E., 1220
 Cary, F. H., 164
 Cary, Walter, 1506*
 Case, D. M., 121, 205
 Casey, M. B., 119, 377†
 Casey, T. P., 722
 Cass, Louis Stephen, 653†, 1216
 Cassidy, D. E., 163
 Castle, Charles C., 337, 423*
 Castle, O. C., 245, 335*
 Caswell, C. H., 973
 Cates, Isaac, 77
 Caton, S. W., 1127
 Chace, H. C., 204
 Chamberlain, Harold B., 1504
 Chamberlin, C. H., 973
 Chapman, A. J., 118
 Charles, R. S., 205, 722, 917
 Charlton, J. H., 807
 Chassel, Edward D., 73*
 Cherry, W. Y., 654
 Chesbrough, E. G., 246, 291
 Childs, S. M., 1218
 Chipman, R. N., 78
 Chisholm, W. J., 1218
 Chittenden, A. D., 119
 Church, J. E., 419
 Claar, R. S., 36
 Claggett, F. D., 164, 291†
 Clair, John C., 470, 654*, 1073, 1510
 Clapp, A. L., 1072, 1126
 Clarity, F. E., 972, 1073*
 Clark, F. J., 75
 Clark, F. P., 469
 Clark, F. W. F., 249
 Clark, Harvey, 1220
 Clark, R. F., 249
 Clark, R. S., 1126
 Clark, W. G., 1505*
 Clarke, A. C., 1024
 Clarke, Walter, 74
 Clarke, W. V. V., 1505
 Cleave, E. J., 805
 Clegg, C. B., 205
 Clement, M. W., 1265, 1509*
 Clifton, Randall, 164, 247†
 Cloud, A. D., 1504
 Cluis, V. M., 470
 Coapman, E. H., 118, 163, 203
 Cobb, H. M., 204
 Cochran, C. W., 378
 Cogan, J. J., 1264
 Coggin, Frank F., 764
 Cohen, L. L., 207
 Colbert, James T., 972
 Cole, Whiteford R., 857, 913*
 Coleman, W. W., 166*, 1120
 Coles, J. G., 249
 Collins, A. B., 291
 Collins, F. S., 163
 Collins, J. C., 337
 Colton, Asa, 294
 Conley, J. H., 760
 Conn, J. C., 1509
 Connell, T. J., 470
 Connolly, J. W., 163
 Connerton, M. J., 378
 Connor, Alfred, 975
 Cook, Charles S., 656
 Cook, C. C., 654, 806*
 Cook, G. H., 420
 Cook, R. E., 164
 Cook, W. D., 761
 Cooke, George T., 764
 Coons, B. F., 470
 Cooper, B. C., 204
 Cooper, C. P., 203
 Cooper, E. M., 74
 Cooper, Frank E., 205
 Cooper, G. A., 1026
 Cooper, J. K., 1024
 Cooper, R. S., 1026
 Coppage, T. B., 1172
 Corbin, L. C., 1023
 Correll, E. J., 1265*
 Couper, William, 1510
 Coverdale, W. H., 760
 Covert, George W., 163
 Covil, W. B. Jr., 1506
 Cowan, W. A., 1265
 Cowhig, W. M., 163
 Cox, O. G., 805
 Coxwell, Mitchell, 470
 Coyle, D. F., 419
 Craig, F. E., 1506
 Cramer, John L., 857
 Craney, M. T., 973
 Craven, Alfred, 803
 Crawford, D. F., 36, 74*
 Crawford, D. T., 1217
 Crawford, John T., 1220
 Creamer, W. E., 805
 Creveling, Guy F., 380
 Crockett, J. O., 74
 Cropper, P. G., 1216
 Crosland, J. E., 420
 Crow, H. A., 858
 Crowley, D. H., 202
 Crowley, D. R., 805
 Crowley, J. J., 653
 Cull, O. T., 246
 Culp, J. M., 118
 Cummings, A., 418
 Cummins, A. A., 290, 334†
 Cummins, H. G., 335
 Cummings, J. H., 1218
 Cunningham, C. C., 807
 Cunningham, Charles S., 202
 Cunningham, E. E., 1126
 Cunningham, I. L., 1025, 1173*
 Cunningham, W. A., 653
 Curren, W. G., 1125, 1265*
 Currier, A. M., 471, 722†
 Curtis, Stanton, 164
 Curtis, W. J., 205
 Cuyler, J. W., 722
 Dakin, G. E., 1504
 Dakin, M. A., 1504
 Dakin, Samuel, 1504
 Dales, A. E., 722
 Dalstrom, Oscar F., 654†
 Daly, Daniel, 204
 Dancy, M. W., 858
 Daniels, M. B., 857
 Daniels, Winthrop M., 44, 55, 73, 144
 Danley, W. L., 75
 Darragh, J. L., 120
 Darrow, W. W., 77
 Davids, C. N., 1264
 Davidson, Albert, 75
 Davidson, A. J., 35
 Davidson, A. M., 1173
 Davidson, William, 974, 1074, 1128*
 Davie, George F., 78
 Davin, H. A., 858
 Davis, Geo. F., 292
 Davis, H. J., 205
 Davis, H. P., 1506
 Davis, Joseph, 166, 209†
 Davis, J. M., 205
 Davis, M. L., 1128
 Davis, Oscar King, 917
 Davis, R. E., 1072
 Dawson, R. F., 722
 Deane, C. F., 654
 De Bernardi, Albert, 1508, 1509
 De Butts, R. H., 291
 Deetrick, J. W., 975
 De Groodt, R. L., 1265
 De More, G. A., 1219
 Dempcy, Thomas E., 1021, 1071†
 Dennis, George A., 805
 Dennis, J. S., 722
 Dennis, Robert A., 973
 Dennis, Walt, 858*
 Deniston, M. P., 653
 De Sautelle, J. I., 1126
 Devans, E. J., 764
 Deveny, W. D., 205
 Devol, G. C., 420, 470†
 Dewey, F. E., 1264
 Dewey, Luman R., 380
 Dickinson, B. F., 76
 Dickinson, E., 1023
 Dickson, John B., 914, 1125
 Diehl, J. B., 857
 Diehl, R. O., 858
 Diemar, C. R., 722
 Dill, S. W., 203
 Dillon, E. P., 656
 Dinan, A., 205
 Dinan, D. W., 972, 973†
 Dinkey, A. C., 249
 Doods, James H., 36†, 119
 Dodge, G. G., 163
 Donaldson, Thomas C., 1074
 Donal, J. S., 246
 Donellan, Joseph F., 915
 Donny, W. H., 858
 Dooley, W. H., 164
 Doran, Harry G., 1504
 Dotson, B., 1264
 Dougherty, Curtis, 121
 Doughty, M. H., 420, 915
 Douglas, F. W., 378
 Douglas, J. S., 760, 857
 Doyle, J. W., 653, 722
 Doyle, W. J., 653
 Drake, I. H., 205
 Drew, J. G., 1125
 Driscoll, D. N., 1264
 Droegge, John A., 1126
 Duffee, L. W., 292
 Duffee, W. H., 290
 Duke, J. B., 203
 Duke, W. D., 972
 Dunbar, Thomas, Sr., 860, 917*
 Duncan, W. M., 118
 Dunglinson, George, Jr., 913
 Dunham, F. C., 337, 423*
 Dunkle, Henry O., 914
 Du Pont, Lamot, 725
 Du Puy, Herbert, 122
 Du Puy, Raymond, 334, 376*, 418
 Durham, E. M., Jr., 204, 972
 Dusenbury, S. E., 1509
 Dutton, F. B., 294
 Duval, J. E., 377
 Dwyer, W. F., 1128
 Dye, Edward A., 1510
 Dyer, W. H., 761
 Dyke, R. L., 1025
 Earle, J. L., 1074
 Easby, D. T., 807
 Easley, F. J., 291, 334†
 Eastman, W. R., 75
 Eaton, O. L., 1125, 1128
 Eaves, G. W., 378
 Eckert, W. F., 246
 Eddy, W. I., 858
 Edmunds, Edward I., 914
 Edwards, F. C., 204
 Edwards, J. P., 722
 Eely, C. A., 246
 Eib, Charles H., 77
 Elmd, K. J., 763
 Elder, A. H., 1216
 Elder, C. C., 335
 Elliott, F. S., 377

ELECTIONS AND APPOINTMENTS—Continued

- Elliott, Howard, 905
 Elliott, H. S., 1025
 Elliott, John H., 119†
 Elliott, L. B., 378
 Ellis, F. E., 470
 Ellis, G. M., 470
 Elmer, James P., 163
 Ely, N. D., 1027
 Emery, L. S., 972, 1072†
 Emley, W. S., 1174
 Emmert, J. C., 1216
 Endsley, H. S., 294
 Engle, C. W., 205
 Ennis, J. B., 1170
 Eppes, E. B., 761
 Ericson, Lambert T., 724
 Ermsstrom, George L., 378
 Ervin, C. E., 163
 Evans, D. J., 1125, 1265†
 Evans, Walter H., 337
 Everitt, George F., 419, 653†
 Ewing, Albert, 204, 334†
 Ewing, David L., 1172
- Faherty, T. K., 36
 Fairbairn, F. W., 291
 Falck, F. M., 246, 857*
 Farnsworth, Ellis, 858, 914
 Farrell, H. E., 760
 Farrell, James A., 917
 Fatherson, Thomas W., 1220
 Fay, C. S., 205, 247*
 Feakins, G. W., 1218, 1264
 Fegan, C. P., 805
 Felton, H. C., 246
 Felton, S. M., 1174, 1275* 1276†
 Fenno, H. W., 471
 Fenton, Mark, 476, 654†, 1510
 Ferriday, R., 205
 Field, William A., 122
 Fields, John C., 290
 Fincher, C. F., 913
 Finegan, E. B., 246, 377*
 Finley, James, 722
 Finnell, H. W., 249
 Fisher, C. W., 419
 Fitz, W. S., 291
 Fitzmaurice, R. D., 75, 119*, 1126
 Fitzwillson, J. E., 164, 292†
 Flannery, James J., 294
 Flannery, J. Rogers, 294
 Flippin, B. M., 914, 1024*
 Flynn, E., 1217
 Flynn, Frank H., 1172
 Foley, J. J., 722
 Folger, George H., 1023
 Foote, R. C., 75
 Ford, E., 118
 Ford, J. B., 164, 420*
 Ford, R. L., 75
 Foreacre, W. N., 119
 Foscoe, A. W., 1074
 Foster, E. G., 858
 Foster, Leroy, 1220
 Foster, L. T., 972
 Foster, William H., 1127
 Fox, M. J., 205
 Frauendiener, W. J., 471
 Freund, H. E., 291
 Freygang, A. H., 1173
 Fritch, Louis C., 1218*
 Froyd, E. A., 1074
 Fulkerson, A. H., 291
 Fuller, Oliver C., 860
 Furman, T. H., 972
- Gabriel, R. W., 1173
 Gaffney, John F., Jr., 246, 377*
 Gage, S. T., 1125
 Gagel, Edward, 1126
 Gagnon, J. F., 1509†
 Gallaher, T. B., 1218
 Galloway, A. K., 205
 Gardner, J. W., 246
 Gardner, L. R., 653
 Garland, W. L., 1211
 Garrett, George A., 36
 Garrett, M. K., 123
 Garrett, William A., 1128
 Garrity, John H., 420
 Garvey, J. B., 291
 Gary, Elbert H., 763
 Gatchell, W. H., 163, 290*
 Gates, M. G., 807
 Gatewood, E. C., 204, 1024
 Gatlin, T. H., 163
 Gaylord, T. P., 1506
 George, R. E., 1024
 George, W. A., 915
 Gethins, J. F., 292
 Gibson, Andrew, 205, 974
 Gibson, H. R., 1173
 Gilbert, A. V. B., 1218
 Gilbert, G. H., 121
 Gildroy, George J., 419
 Gilfillan, C. R., 1127
 Gill, Charles A., 205
 Gillette, G. V., 419
 Gillette, Sherman H., 1266
 Gilliam, H. G., 1126
 Gilmer, G. H., 805
 Ginn, F. J., 119
 Githens, J. N., 1218
 Glancy, A. R., 725
 Glasgow, Cassius L., 202
- Glass, J. C., 163
 Goeldner, E. A., 204
 Goethals, George W., 294
 Goforth, E. G., 419
 Goings, C. E., 205
 Gold, Egbert H., 764
 Gold, Winthrop, 764
 Goodwin, E. C., 164
 Gordon, F. L., 380
 Gordon, Robert L., 1120
 Gorman, James E., 1487*
 Gorsuch, C. B., 75
 Goss, W. F. M., 295, 764
 Gould, George J., 913
 Govan, J. F., 1218
 Gowing, J. P., 249
 Graham, E. M., 36
 Graham, George S., 915
 Graham, James W., 1510*
 Graham, J. B., 653
 Graham, Ross G., 763
 Graham, R. H., 470
 Gram, L. C., 163
 Grandy, A. L., 1023
 Grant, Alex., 163
 Grant, J. H., 75
 Graves, L. C., 915
 Graves, Ralph E., 1504
 Gray, Budd D., 1027
 Gray, Charles N., 120
 Gray, G. H., 118, 290*, 335
 Gray, H. A., 336*
 Gray, H. J., 1024
 Greaves, George, 1216
 Green, F. W., 1128
 Green, H. M., 294
 Green, Lincoln, 118, 203*
 Gribbins, C., 76
 Griffin, F. R., 36
 Griffin, Irving M., 915*
 Griffin, T. R., 163
 Griffin, W. C., 760
 Griffiths, S. N., 249
 Grigg, Frank N., 472, 764*
 Grimshaw, H. B., 1508
 Grubbs, T. S., 123
 Guhier, J. A., 73
 Guild, Lawrence V., 1023
 Gumpfer, H. D., 122
 Guppy, B. W., 1220
 Gurley, F. G., 419
 Gutelius, F. P., 1072, 1172, 1217*
 Guthrie, D. S., 77
- Haberlaw, William E., 1220
 Hackenberg, J. O., 807
 Hagelberger, Victor H., 1220
 Hainen, J., 163
 Hait, F. N., 973
 Halberg, Otto Emanuel, 913†
 Haldeman, A. L., 1023, 1264
 Hale, O. R., 248†
 Hale, Samuel, 78
 Hall, E. B., 1217
 Hall, H. C., 628*
 Hall, H. M., 761
 Hall, James, 761, 915
 Hall, R. A., 1126
 Hall, W. G., 1024
 Hall, W. W., 1504
 Hallett, Edward M., 122
 Halliday, J. O., 1126
 Halsey, W. W., 336
 Hambly, T., 1024, 1073
 Hamilton, J. O., 1127
 Hamilton, T. B., 74, 118†
 Hamlin, E. P., 1265
 Hammer, B. H., 1508
 Hancock, G. N., 913
 Hand, G. T., 915, 974*
 Hanna, J. H., 1173
 Hansen, J. M., 295
 Hansen, J. N., 422
 Hardin, F. H., 654
 Hardy, E. J., 74
 Hardy, W. G., 1218
 Harper, Arthur P., 764
 Harper, G. B., 470, 1510
 Harrell, H. B., 1073
 Harriman, S. P., 764
 Harris, C. L., 805
 Harris, E. J., 1024, 1073
 Harris, J. H., 913
 Harris, J. J., 1172
 Harris, L. G., 915, 1024
 Harris, M. L., 973, 1127†
 Harris, T. E., 761
 Harrison, Fairfax, 118, 203
 Harrison, H. L., 294
 Harrison, J. P., 974
 Harsh, H. H., 806
 Hartmann, W. F., 380
 Harvey, Eugene, 290
 Harvey, W. V., 118
 Hassman, L. E., 724
 Hatch, F. T., 205
 Hatch, M. C. M., 337*, 378
 Hatfield, R. M., 1265
 Haver, W. M., 75, 760, 805*
 Hayden, Bert, 1266†
 Hayden, G. W., 1126
 Hayes, Carlos A., 1217†, 1265
 Hayes, Howard H., 76
 Hayes, J. L., 1023, 1125†
 Hayes, W. A., 722, 972†
- Haywood, William, 761
 Hazelhurst, A., 294
 Healy, J. D., 164
 Hearn, H. B., 118
 Heath, R. F., 972
 Hebard, W. F., 122
 Heberd, E. M., 857
 Hegeman, B. A., Jr., 337, 423*
 Hegeman, Harold A., 337, 423*
 Hellen, Joseph, 722, 806*
 Helm, A. F., 972
 Helm, Frank, 335
 Helstrom, M., 204
 Hench, C., 915
 Henderson, W. T., 204
 Henry, J. M., 805
 Herbert, G. B., 334
 Herman, B., 163
 Herr, E. M., 764, 1506
 Herr, H. T., 1506*
 Herron, W. W., 1170
 Hervey, Charles S., 332
 Heureman, W., 335
 Hevener, Paul, 1174
 Hickey, D. W., 119
 Hicks, I. C., 654, 761
 Higgins, Joseph A., 1509
 Higgins, Samuel, 764
 Hiland, F. S., 207, 294
 Hilgartner, Daniel E., 760
 Hill, Norman A., 209
 Hill, R., 972
 Hilliker, Hanson V., 857, 914†
 Hillinger, Frank, 36
 Hillman, Edward D., 337, 423*
 Hillman, Ernest, 294
 Hills, A. J., 376, 653†
 Hincley, B. S., 1510
 Hine, Charles, 1174
 Hiner, W. J., 1220
 Hines, B. F., 205
 Hite, H. C., 913
 Hobbs, F. S., 1127
 Hobbs, H. L., 1264
 Hobbs, Ora H., 74
 Hobson, E. P., 39
 Hodgdon, William, 36*
 Hodges, George, 845*
 Hodkins, L. C., 805
 Hoffman, E. W., 1125
 Hoffman, H. A., 336
 Hoffstat, F. H., 295
 Hogan, E. D., 291
 Holland, Cyrus J., 336
 Hollands, F. S., 1266
 Hollenbeck, Edgar, 469
 Holmes, C. H., 118
 Holmes, F. J., 1217
 Holmes, G. A., 1126, 1220
 Holmes, Hugh B., 292*
 Holmgren, Henry, 418
 Honaker, H., 378
 Hood, H. M., 290
 Hood, Tom, 1024
 Hooper, Blake C., 724
 Hooper, Joseph J., 1216†
 Hooper, S. U., 1265
 Hoot, J. C., 1259
 Hopkins, William M., 719
 Horn, D. B., 377
 Horton, Thomas E., 1220
 Hoskins, F. G., 760
 Houston, H. A., 75
 Howard, J. K., 122
 Howard, Nathaniel L., 1220
 Hubbard, John W., 975
 Hudson, C. R., 35
 Hudson, W. C., 163
 Huffer, H. C., Jr., 760
 Hulen, John A., 761
 Hulme, Thomas W., 76
 Humphrey, A. L., 123, 208*
 Humphrey, H. J., 377, 805
 Humphrey, W. G., 469
 Humphreys, William, 335
 Hungerford, H. L., 163, 246†
 Hunt, Harry B., 166, 208†
 Hunt, R. W., 420
 Hunt, T. J., 419
 Hunter, George D., 1127, 1173*
 Hunter, George W., 1504
 Hunter, J. W., 164, 1024
 Huntington, C. W., 418
 Huntley, L. R., 334
 Hurley, Edward N., 77
 Hurley, John D., 1026
 Huston, F. T., 420
 Hutchens, H. E., 163
 Hutchinson, J. B., Jr., 805
 Hutchison, S. A., 76
 Hyde, C. W., 335
- Ingalls, A. S., 334, 377†
 Inglis, William W., 376
 Ingram, George F., 858
 Irwin, John, 805
 Irwin, Robert, 913
 Isbester, George C., 1504
- Jackson, J. L., 1170
 Jacobus, G. H., 1265
 Jaekel, W. M., 722
 Jameson, C. K., 74
 Jamison, T. E., 75, 291
 Jeffers, W. M., 1508
- Jeffery, Edward T., 66*
 Jenkins, Jenks B., 1128
 Jennings, R. D., 335, 377
 Jensen, Frank, 1127, 1172†
 Jessen, Leo, 913
 Jewitt, C. C., 378
 Johnson, J. E., 805, 915
 Johnson, Ben, 1073
 Johnson, Herbert W., 35
 Johnson, J. E., 419, 858, 915
 Johnson, L. L., 164
 Johnson, Noah, 722
 Johnson, William, 1217
 Johnston, C. E., 291, 334*, 420
 Johnston, Walter H., 1220
 Johnstone, J. G., 973
 Jonah, F. C., 1220
 Jones, B. M., 378
 Jones, Clarence, 806
 Jones, F. H., 1120
 Jones, Grace E., 245
 Jones, John R., 1217
 Jones, J. A., 163
 Jones, L. A., 118
 Jones, L. E., 163
 Jones, L. M., 204
 Jones, Melodia B., Mrs., 245
 Jones, N. W., 246
 Jones, T. J., 291, 334†
 Jones, W. G., 972
 Jones, Warren H., 1506
 Jordan, J. J., 163
 Joyce, M. M., 1172, 1264†
- Kachelmacher, N. L. C., 123
 Kagay, D. M., 77
 Kantmann, A. G., 118
 Karibo, J. J., 471
 Kavanaugh, C. J., 290, 419
 Kearns, S. J., 334
 Keating, P. F., 1217
 Keeley, W. J., 75
 Kegler, W. C., 378
 Keiser, A. A., 202
 Kelker, J. W., 763, 808*
 Kelleher, G. C., 164, 205
 Kelleher, W. J., 118, 860†, 974
 Keller, G. L., 35
 Kellogg, D. P., 722, 806*
 Kellogg, W. L., 248
 Kellum, E. B. A., 1218
 Kelly, J. W., 120
 Kelly, W. E., 207
 Kelly, W. W., 1127
 Kelsey, F. D., 377
 Kelso, C., 292
 Kemper, E. H., 203
 Kemper, William T., 1023
 Kendall, Warren C., 35, 205†, 972
 Kenly, Ritchie, G., 1126*
 Kennan, E. T., 74, 163
 Kennedy, F. R., 805
 Kennedy, Grove C., 1220
 Kennedy, M. J., 913
 Kennedy, W. M., 245
 Kennedy, W. V., 378
 Kennicott, Cass L., 422
 Kern, H. F., 1127
 Kern, James W., Jr., 1220
 Kerr, G. H., 335
 Kerwin, E. E., 418*
 Kilde, Walter, 250
 Kilburn, E. D., 656†
 Kilker, P. F., 469
 King, H. C., 470
 King, Leonard L., 1074
 King, V. R. C., 1265
 Kinnersley, T. S., 857, 972*
 Kinney, O. L., 75, 1024
 Kinzie, S. A., 1220
 Kirkbride, F. B., 1027
 Kirkland, D. F., 760
 Kirtley, George W., 914
 Kissell, J. E., 378
 Kitching, E. C., 420
 Kittlesby, H. I., 290
 Kleuver, Edward, 75
 Knapp, E. G., 469
 Knapp, G. A., 1174
 Knight, Harold, 915†
 Knightlinger, J. W., 419
 Koch, Frank, 973
 Kreutzberg, Edgar C., 380
 Krohn, Arthur, 1173
 Kruttschnitt, Theodore H., 1220
 Kulp, B. R., 1126
 Kyle, R. P., 377
- Lacy, L. D., 805
 Laird, Samuel, 336
 Lakin, F. D., 1025
 Lamb, O. S., 653
 Lamphere, F. E., 1510
 Lancaster, J. L., 913
 Landry, H. D., 1073, 1127†
 Lane, Harry A., 722, 761*
 Lang, Henry, 250
 Langham, E., 420
 Lank, W. J., 1024
 Lantry, T. H., 1264, 1265
 Lantz, P. H., 1509
 Lass, Edward, 860
 Lassiter, Columbus K., 166, 208†
 Lathrop, C. L., 972
 Latrobe, G., 1265

- Laughton, H. H., 163, 419†
 Lautz, H. B., 204
 Lavarack, W. W., 336
 La Vine, H. H., 1218
 Lawton, A. L., Jr., 1128
 Lawton, R. M., 1174
 Layfield, E. N., 764†
 Leahy, W. J., 760, 1128
 Leamy, M. F., 36
 Leary, John A., 1265
 Leatherland, W. L., 163
 Le Baron, R. W., 1128
 Lee, Elisha, 722, 760*, 1265
 Lee, J. Moultrie, 760
 Lee, Robert E., 1217
 Leech, H. A., 973
 Legg, W. M., 913
 Leighton, William, 724
 Leighty, C. L., 1172
 Leiper, C. L., 1265, 1508*
 Leis, E. R., 75, 205
 Leo, P. R., 722
 Leonard, Jos. F., 975
 Le Roy, H. H., 118, 203
 Leverich, C. E., 653
 Levy, E. D., 74
 Lewis, C. H., 764
 Lewis, Dwight N., 73, 116*
 Lewis, Edwin L., 858, 914*
 Lewis, I. R., 250
 Lewis, Russell G., 203
 Lightfoot, W. L., 75
 Likert, G. H., 1510
 Lilley, E. C., 469
 Lilley, F. L., 805
 Lillie, H. J., 1172
 Lincoln, Frederick B., 914
 Lincoln, I. W., 39
 Lindenkohl, Henry, 207†
 Linley, Fred H., 248
 Linn, William A., 37†
 Linney, G. L., 1264
 Lippincott, Bertram, 123
 Litchfield, Thomas E., 294
 Livingston, H. T., 1174
 Livingston, John B., 248
 Llewellyn, S. J., 78
 Lloyd, F. R., 1126
 Locke, S. D., Jr., 35
 Lockett, J. H., 913
 Lodge, William, 975†
 Loeffler, Hubert, 1510
 Loomis, Edward E., 334, 364*
 Lordan, R., 292
 Loree, J. T., 36
 Loree, L. F., 118
 Loudon, A. C., 860
 Loutrel, Cyrus H., 724
 Lowman, Harry F., 764
 Lowther, H. F., 974
 Loyall, G. R., 118, 204†
 Lucas, A. N., 1073
 Luck, George L., 724
 Luckett, H. D., 335
 Lucore, Delmar D., 972
 Ludington, C. F., 915
 Luscombe, J. T., 975
 Lyddon, H. A., 1127
 Lynahan, J. P., 1264
 Lyon, C. A., 1127
 Lyons, J. J., 245
 Lyons, L. W., 1506
 McArthur, J. O., 858
 McAuley, J. D., 75
 McAuliffe, Eugene, 75†
 McBean, W. H., 1217
 McCabe, L. E., 761, 858
 McCarthy, A. A., 1172
 McCarthy, C. A., 1264
 McCarthy, D. W., 722
 McCarthy, O. H., 469
 McCarty, R. E., 35*
 McClannahan, E., 1024, 1510
 McClintock, W. M., 975
 McConnell, David H., 1504
 McCord, C. C., 378
 McCormack, Stanley, 122
 McCormick, Charles H., 1259
 McCormick, W. C., 653
 McCormick, W. H., 858
 McCuaig, D. J., 654
 McCue, J. H., 204
 McDaniel, C., 1172
 McDermott, John M., 36, 164
 McDonald, E. C., 972
 McDonald, James, 807
 McDonald, L. B., 857
 McDonnell, F. S., 419
 McDowell, James, 1072, 1127
 McFarland, H. F., 1220
 McGeen, D. M., 75
 McGoff, J. H., 761
 McGraw, James H., 380
 McGraw, J. A., 36, 1266
 McGroarty, W. B., 419
 McIlvaine, C. L., 1025
 McIntyre, Albert C., 973
 McKay, R. H., 1218
 McKean, Benjamin, 74*
 McKellar, R. L., 164, 247†
 McKeeney, W. F., 975
 McKillop, R., 377
 McKinnon, J. H., 163
 McKowen, A. A., 805
 McLain, E. P., 1264
 McLaughlin, H. L., 75
 McLean, Arthur W., 471
 McLean, James E., 163†
 McMaster, A. E., 75
 McMaster, H. C., 74
 McMaster, H. W., 118
 McMillan, A. E., 292
 McMinn, H. I., 1170
 McNamara, T. J., 1504
 McNaughton, James, 380
 McNeill, C. M., 1264
 McNulty, J. H., 249
 McPartland, M. B., 1510
 McPhail, W. F., 761
 McPherson, Edgar S., 1023
 McQuade, R. J., 722
 McQuilkin, H. P., 164
 McQuillen, J. E., 470
 McTague, J. J., 722
 McVey, William D., 1127
 McWade, F. J., 761
 Maas, S. J., 36
 MacElveny, A. W., 469, 760†
 MacLaren, A. M., 1026
 MacLaren, M. F., 1217
 MacLeod, J. R., 653
 MacNeill, Charles, 294
 Macon, E. A., 1127
 Magaw, Charles A., 245, 290†
 Maischaider, A. F., 378
 Malone, Richard F., 652†, 1216
 Maloney, Carl M., 1174
 Malott, F. W., 1127
 Maltbie, Milo R., 202
 Malthaner, Wm., 205
 Manchester, A. E., 858
 Manchester, P. E., 471
 Mann, R. B., 1509
 Mann, Ross, 1125
 Manson, E. C., 760, 857, 914†
 Mantell, John J., 914, 1125†
 Mark, F. Lloyd, 380
 Marker, Van N., 122
 Markham, E. L., 1074
 Markle, N. R., 1127, 1174
 Markley, W. L., 1023
 Marsh, A. Fletcher, 917, 1211
 Marsh, Daniel L., 764
 Marsh, H. W., 860
 Marshall, Joe, 760
 Marshall, Waldo H., 77
 Martin, E. L., 973
 Martin, F. E., 75
 Martin, W. E., 857
 Martyn, J. Turner, 337
 Marvel, Frank W., 1120
 Mason, T. H., 290
 Massey, R. V., 1265, 1509*
 Matson, J. S., 119
 Matthews, A. A., 973, 1127
 Matthews, F. C., 1264
 Matthews, H. A., 207
 Matthews, J. R., 1504
 Matthews, R. T. G., 858
 Matthews, S. C., 164
 Matimore, L. A., 654
 Maxfield, H. H., 1024, 1219*
 Maxwell, H. W., 1217
 Maxwell, O. E., 1172
 May, E. H., 1173, 1219
 May, John L., 1220
 Mayer, John, 722
 Meade, Charles A., 725
 Meaden, J. A., 763
 Means, W. A., 763
 Meeder, W. R., 335
 Mehren, E. J., 381
 Melanson, H. H., 1266, 1510*
 Mellor, C. L., 77
 Melone, J. W., 36
 Melton, W. S., 119, 163
 Menuez, E. B., 470
 Mercer, George, 36
 Mercer, T. H., 653
 Mercier, A. T., 419, 722
 Merion, J. E., 245
 Merriam, S. L., 857
 Merrifield, W. E., 119
 Meyers, M. B., 724
 Mihm, E. W., 291
 Mikesell, H. S., 808
 Milam, R. M., 1074
 Millar, Leslie W., 764*
 Miller, A. A., 75, 121†
 Miller, D. C. E., 203
 Miller, E., 972
 Miller, H. W., 203
 Miller, John F., 123
 Miller, L. W., 77
 Miller, M. D., 1127
 Miller, Robert M., 1128
 Miller, Samuel E., 972
 Miller, W. M., 913
 Milligan, J. I., 857
 Milliken, James, 1025, 1174†
 Mills, Ellsworth L., 1120
 Mills, Harrison M., 914, 1072*
 Mills, I. H., 1073
 Mills, R. H., 36, 75
 Millsbaugh, J. C., 761, 1073†
 Minchin, H. G., 204
 Miner, F. M., 1023, 1216, 1264*
 Mitchell, Carl A., 1127
 Mitchell, C. G., 204
 Mitchell, C. H., 75
 Mitchell, C. M., 163
 Mitchell, E. F., 973†
 Mitchell, R. W., 860
 Moberly, H. P., 120
 Moffatt, E. B., 291
 Moffett, George D., 761
 Monroe, John T., 722
 Monroe, J. B., 118
 Moody, M. E., 805
 Moon, D. C., 334, 419†
 Mooney, P., 419, 653
 Moore, A. J., 1265
 Moore, H. C., 760
 Moore, H. J., 204, 291†, 915
 Moran, E. J., 291
 Moran, W. F., 292
 Morden, Earle B., 1510
 Morehead, William S., 1074
 Morehouse, Charles H., 75, 120†
 Morehouse, R. H., 205
 Morgan, B. E., 75
 Morgan, Dwight C., Jr., 973
 Morgan, E. C., 1024
 Moriarty, George A., 1126, 1219*
 Morris, Harrison, 123
 Morris, John, 294
 Morris, R. H., 164, 247*, 973
 Morrison, Charles H., 1126
 Morrison, E. W., 334
 Morrow, J. W., 245
 Morse, C. A., 605*
 Mosby, W., 1125
 Mosier, L., 207
 Moth, George, 722
 Motsett, Charles H., 1127
 Mount, J. W., 1218
 Mount, R. P., 973
 Moursund, E. M., 419
 Muchall, H. H., 1218
 Mudge, Burton, W., 763
 Mueller, E. F., 1127
 Mueller, Stephen E., 1220
 Mulcahy, P. H., 469
 Mulhern, J. W., 419, 470
 Mulligan, M. A., 419
 Munroe, K. O., 1508
 Munster, A. W., 1510
 Munyan, C. B., 246
 Murphey, C. H., 290
 Murphy, Charles M., 1220
 Murphy, Grayson M. P., 380
 Murphy, J. E., 377
 Murphy, T. N., 205
 Murray, Charles F., 975
 Murray, H. T., 469
 Murrian, W. S., 163
 Myers, C. F., 74
 Myler, Paul J., 380*
 Nagel, John T., 1173†
 Nagle, C. E., 761
 Nash, F. D., 1220
 Nash, F. P., 1220
 Neff, A. P., 722
 Neff, William W., 1024
 Neil, George E., 1120
 Nelms, W. H. L., 761
 Nelson, Charles A., 1257
 Nelson, G. A., 472*
 Nelson, R. M., 37
 Netherland, W. M., 163
 Newbern, J. W., 245
 Newell, James W., 35
 Newman, C. A., 1259
 Newton, Albert W., 37*
 Newton, Peter A., 122
 Nichols, G. C., 36, 121†
 Nicholson, Macy, 972, 1072†
 Norris, E. E., 163
 Norton, C. F., 120
 Nott, L. A., 1211
 Nowell, F. M., 972
 Noyes, W. H., 1126
 Nutting, R. W., 1217
 Oakley, C. B., 858
 Oatley, Henry B., 860
 O'Boyle, J. J., 469
 O'Brien, J. E., 1217
 O'Brien, J. W., 653
 O'Brien, William E., 1074
 O'Connell, William L., 1021
 O'Connor, J. J., 860
 Ogborn, Willis H., 335†
 Oliver, A. O., 1072
 Oliver, H. W., 74
 Olson, Edward E., 858
 Orr, James, 419
 Orr, J. W., 74
 Osborne, William Church, 913
 Osborne, L. A., 1506
 Osgood, Farley M., 764
 Osgood, H. A., 1216
 Otterston, F. J., 1072
 Ouellet, D. O., 36
 Overpeck, Leroy, 1266
 Oviatt, H. C., 1126*
 Owen, Galen B., 915, 1074*
 Owen, W. F., 290
 Pace, Robert T., 420
 Paine, Waldo G., 973
 Palmer, I. E., 419, 470†
 Parker, F. A., 1217, 1220
 Parks, Robert N., 1259, 1504
 Parrish, J. B., 1217
 Parsons, B. F., 1266
 Parsons, J. H. R., 203, 290*, 722
 Parsons, T. W., 760
 Paschall, W. E., 74
 Patchin, Robert H., 917
 Paten, Frank P., 1174
 Patterson, W. J., 1506
 Patton, Charles, 972
 Payne, J. B., 973, 1024*
 Peacock, E. E., 120
 Pearce, W. G., 77
 Pearson, E. J., 905*
 Pearson, J. W., 1220
 Pearson, O. E., 163
 Pearson, R. L., 1219
 Peckenpaugh, C. D., 1217
 Peoples, Howell, 722
 Pegram, R. B., 204
 Pennington, H. R., 470
 Pennington, Edmund, 1023
 Penrose, Spencer, 1264
 Perine, David M., 1172*
 Perkins, O. E., 1265
 Perrine, D. M., 1024
 Peters, H. L., 805, 1024
 Peters, Ralph, Jr., 972
 Peterson, A. C., 334
 Peterson, Harry, 1024
 Pettibone, F. G., 1128
 Pew, John O., 122
 Pfahler, F. J., 1074
 Pfisterer, H. B., 1127
 Phillips, M. L., 1264
 Phillips, A. D., 805, 858
 Phillips, C. J., 377
 Phillips, Howard C., 76*
 Platt, J. W., 291
 Pickard, J. F., 74
 Pierce, J. J., 419
 Piper, W. R., 420
 Pitt, Wm. J., 75
 Plant, A. H., 203
 Platt, J. G., 724*
 Platten, John W., 290
 Plummer, R. A., 470
 Plummer, S. C., 1174
 Podmore, J. M., 471
 Poetter, E. H., 565†, 656
 Pollock, A. B., 205
 Pollock, George L., 37, 39*
 Pomar, T. V., 722, 760†
 Poor, C. O., 1120†
 Poore, George A., 75, 205†, 1127
 Pope, John L., 860
 Porter, J. S., 337
 Potter, E. C., 290, 1264
 Poveleite, H. A., 164, 246†
 Powell, J. S., 972
 Powell, T. C., 118, 203
 Power, John A., 36†
 Powers, C. S., 291
 Powers, J. J., 291
 Powers, M. J., 1266
 Prall, W. M., 74, 163
 Pratt, A. E., 915
 Pratt, C. M., 249
 Price, Charles V., 424
 Priest, R. N., 915
 Pritchett, A. L., 972
 Pruett, J. J., 74, 652
 Prytz, B. G., 1027
 Pummill, P. W., 246
 Purdy, F. A., 764
 Pye, David W., 1504*
 Quattrone, F., 1120
 Query, J. R., 972
 Quest, Harry C., 975, 1026*
 Quickel, R. D., 164
 Quilty, Joseph P., 35, 1023*
 Quinn, E. Y., Jr., 722, 1216, 1508*
 Radford, Robert, 1170*
 Rafert, L. A., 1264
 Rahn, N. H., 120
 Ralston, A. L., 1126
 Ralston, J. S., 295
 Ralston, L. T. M., 1174
 Ramage, J. C., 292
 Ramsbacher, G. F., 1218
 Randall, George C., 1074
 Rankin, S. A., 975
 Ransom, William L., 856
 Rathburn, J. A., 163
 Ratliff, C. M., 292
 Rausch, C. C. P., 1218, 1266†
 Ray, Hal S., 1174
 Reed, H. J., 335
 Reese, Charles L., 725
 Reese, O. P., 36, 76*
 Regan, Edward E., 1127
 Reigel, Fred S., 291†
 Reinholdt, J. H., 420, 1173†
 Reinsagen, H. B., 471
 Rimmel, William S., 975
 Replogle, J. Leonard, 123, 294
 Resch, J. C., 419, 420
 Reynolds, F. N., 1510
 Reynolds, W. C., 1172
 Rhodes, C. H., 1259
 Rhodes, Lewis B., 764
 Rhodes, H. J., 118
 Rhuark, F. W., 292
 Rice, George W., 1074
 Rice, J. S., 1126, 1128
 Rice, N. M., 74
 Rice, S. L., 420
 Rich, J. C., 290
 Richards, E., 913
 Richards, G. J., 163
 Richardson, G. F., 1172
 Richardson, W. W., 761
 Richey, E. W., 249, 294†
 Richter, Wm., 725
 Ricker, H. F., 290

ELECTIONS AND APPOINTMENTS—Continued

- Rider, Whitney J., 1074
 Ridgely, J. K., 1218, 1266†
 Ridgway, A. A., 975
 Riegel, F. S., 164
 Rigdon, R. W., 760
 Rightmeyer, J. H., 760, 805
 Rine, Edwin M., 376†, 377
 Ringer, F., 1174†
 Ripley, P. M., 1264
 Rist, C. J., 915
 Ritchey, R. M., 653, 722
 Robbins, Franklin G., 914
 Roberts, J. G., 1174
 Robertson, A., 1125
 Robinson, R. B., 915
 Rodney, Keith R., 1120
 Roederer, E. L., 335
 Roesch, A., 205
 Ronaldson, F., 76
 Root, Logan H., 1074
 Rosen-Baum, E. R., 764
 Roth, H. J., 761, 858†
 Roth, J. C., 291, 1265, 1508
 Rouleau, J. L., 120
 Rouse, H. E., 164
 Rouzer, I. W., 1218
 Rowan, C. A., 123
 Rowland, Sidney V., 1220
 Ruby, E. L., 1075
 Ruby, R. L., 1172
 Ruffer, Augustus E., 914, 972†
 Rugg, W. S., 656*
 Ruggles, H. E., 469
 Ruhl, H. T., 1510
 Ruiter, A. R., 722
 Runnells, Clive, 1125*
 Russ, J. F., 119
 Russell, C. A., 164
 Russell, H. H., 806
 Russell, J., 291
 Russell, Morton, 1266
 Ruth, S. F., 74
 Ryan, John, 163, 203†
 Ryan, T. H., 974, 1128†
 Ryan, W. B., 973
 Ryan, Wm. B., 1510
 Sadler, W. T., 291
 Sargent, H. B., 118
 Sasser, E. C., 163
 Savage, H. D., 122*
 Savage, J. K., 204
 Sawtelle, Fred W., 1220
 Sawyer, James D., 166, 209†
 Sawyer, H. A., 761
 Saye, S. W., 762
 Scandrett, Benjamin A., 163, 245†, 290
 Schaff, W. F., 1125
 Schimpeler, Charles, 917
 Schimpeler, C. H., 917
 Schimpeler, Henry, 917
 Schlafke, William, 1219
 Schlafly, J. F., 337
 Schleyer, George H., 1172
 Schmall, A., 1074
 Schnitzer, George E., 805, 914†
 Schoenky, O. B., 722
 Scholz, Carl, 1217, 1266*
 Schonfelder, C. Jr., 973
 Schoonmaker, S. L., 166
 Schram, I. H., 1025
 Schreiber, Edward A., 764
 Schroyer, H. H., 860
 Schultz, C. A., 420
 Schultz, Edward, 1220
 Schultz, M. L., 761
 Schumacher, Thomas M., 652*
 Schuttenberg, E. H., 973
 Schwietert, H. J., 470
 Schwin, F. S., 419
 Scofield, E. W., 120
 Scott, B. M., 806
 Scott, Howard, 972, 1126*
 Scott, H. H., 654
 Scott, Robert Bruce, 972, 1023*
 Scott, Robert T., 1026
 Scott, R. L., 1217
 Scott, W. W., 1219
 Scully, F. J., 1125
 Sealy, W. G., 654
 Sebastian, Don B., 807
 Seely, S. A., 470
 Sefton, Robt. J., 1218
 Seigle, R. A., 469
 Seil, P. W., 1504
 Selfridge, Harry, 119
 Sevier, L., 204
 Sewing, A. J., 974
 Sexton, J. R., 1025
 Seymour, C. F., 913, 1023
 Seymour, Edward I., 1266†
 Shanks, H. P., 974
 Shannon, F. V., 123
 Sharp, C. L., 858
 Sharp, H. W., 204
 Shaw, E. H., 164, 292†
 Shea, T. A., 36
 Shea, T. J., 246
 Sheaffer, C. M., 1265
 Sheaffer, D. M., 120*
 Sheehan, George T., 1220
 Shaughnessy, E. H., 1126, 1220
 Shepard, F. J., 1125, 1216*
 Shepard, H. H., 377
 Shepherd, P. L., 246
 Sheridan, H. W., 1217
 Shields, John D., 35
 Shields, S. S., 656
 Shipley, Walter, 164
 Shipman, E. H., 419, 420, 471†
 Shively, J. C., 761
 Shoemaker, H., 164
 Shriver, C. M., 1265
 Shropshire, Ralph, 164
 Shropshire, W. A., 858
 Shumate, Golder, 377, 470*
 Shute, H. D., 764, 1506*
 Siegrist, H. W., 1023
 Siemon, T. W., 123
 Sikes, Clarence S., 857
 Simpson, R. L., 1024
 Sims, C. S., 35, 1072, 1172
 Sisley, Lyman A., 424
 Sisson, Francis H., 1510†
 Skelton, F. A., 39
 Skillen, J. H., 205
 Skillman, T. J., 806
 Slater, Percy, 119, 163
 Slawson, James H., 1211, 1259*
 Slaybaugh, Harvey B., 763*
 Sloan, W. C., 245
 Small, James H., Jr., 860
 Smart, George, 380
 Smart, V. I., 1120
 Smith, A. J., 653, 722†
 Smith, C. E., 517
 Smith, E. E., 1218
 Smith, Frank B., 39
 Smith, F. M., 203, 1125
 Smith, F. P., 913
 Smith, F. W., Jr., 805, 857*
 Smith, H. H., 204
 Smith, H. S., 1265
 Smith, Joseph Y., 975
 Smith, J. Allen, 764
 Smith, J. P., 1264
 Smith, Leonard, 205
 Smith, Loury, 974
 Smith, Lyman D., 1216*
 Smith, Marshall B., 1264
 Smith, M. M., 245
 Smith, N. E., 1126
 Smith, P. F., Jr., 36, 76*
 Smith, R. H., 1509
 Smith, W. R., 377
 Smyer, W. S., 654
 Smyer, C. E., 1172
 Snell, E. M., 335
 Sniffin, E. H., 764
 Solomon, M. T., 760
 Somerville, J. A., 163, 1217
 Sommerville, D. L., 972
 Spencer, H. B., 203
 Spencer, J. C., 120
 Spencer, Oliver M., 913*
 Spencer, William T., 1127
 Spicer, Meade T., 74
 Spindler, O. F., 163, 205
 Sponenburgh, Hiram H., 860
 Sponsel, T., 722
 Stanley, H., 761
 Starbuck, R. D., 334
 Stark, Chas. J., 380
 Stark, W. D., 470
 Staub, A. E., 246*, 291
 Steadwell, J. N., 246, 335†
 Stebbins, S. C., 39, 78*
 Steed, J. K., 378
 Steele, E. T., 164
 Steele, T. F., 204
 Steinberg, George H., 652*
 Steiner, R. E., 1128
 Stephen, George, 75†
 Stephenson, W., 74
 Sterling, Paul, 1126, 1219*
 Stettinius, E. R., 77
 Stevens, C. G., 1509
 Stevens, H. H., 205
 Stevens, M. S., 1074
 Stewart, Charles J., 1126
 Stewart, C. G., 1173
 Stewart, C. J., 1219*
 Stewart, Ernest A., 803
 Stewart, G. S., 377
 Stewart, W. E., 1509
 Stidger, J. G., 118
 Stimson, Earl, 605*
 Stineman, Jay C., 203
 Stocking, E. J., 77
 Stocks, G. T., 1509
 Stokes, A. H., 722
 Stone, A. K., 653
 Stone, Sidney S., 419, 469†
 Stonerod, P. V., 209
 Story, D. A., 1266
 Stoup, Elmer E., 1220
 Stout, R. B., 1074
 Stratton, H. B., 1128
 Stuart, Theodore, Jr., 203
 Stump, H. N., 205
 Sullivan, John F., 722, 806*
 Sullivan, John G., 605*, 659
 Summerhayes, W. A., 974, 1025*
 Swain, Frank T., 336
 Sweet, A. E., 335
 Swinger, C. C., 913
 Sydnor, W. O., 761
 Sympson, H. T., 1173
 Tackaberry, F. H., 1211
 Tansley, William, 805, 913†
 Tate, R. H., 164
 Taussig, J. E., 974
 Tavis, J. J., 806
 Tayloe, W. H., 164
 Taylor, F. W., 36†
 Taylor, G. W., 163
 Taylor, L. S., 290, 334†
 Taylor, R. T., 1264, 1265
 Teague, J. E., 74
 Templeton, J. N., 335
 Tenwick, Richard, 77
 Terrill, Roy, 418†
 Terry, Charles A., 1506
 Terry, John L., 724
 Thacker, C. W., 1266
 Thayer, Ralph M., 246
 Thiele, Charles F., 1510
 Thom, Alfred P., 1072
 Thomas, D. C., 249
 Thomas, E. B., 334, 352*
 Thompson, A. R., 915
 Thompson, C. M., 292
 Thompson, H. H., 761
 Thompson, N. F., 470
 Thompson, William T., 472
 Thompson, William W., 77
 Thomson, E. F., 858
 Thomson, G. L. A., 246
 Thorne, Clifford, 73, 116
 Thornton, C. D., 972
 Thorpe, E. C., 1072
 Thurber, N. P., 334, 419†, 1217
 Timberlake, W. H., 291, 1024
 Tocher, J. P., 291
 Todd, B. H., 470
 Toft, Guy, 205
 Tolley, Samuel, 471
 Tombs, Guy, 378*
 Tomlinson, E. G., 119
 Toole, O. A., 1024
 Topping, A. R., 1120
 Topping, P., 1220
 Tordello, J., 722
 Torrey, Arthur M., 1259
 Tousey, W. C., 75
 Townsend, F. B., 1023, 1072†
 Townsend, L. M., 915
 Towse, F. J., 1217
 Tozzer, George, 1220
 Trachta, G. P., 858
 Trappnell, W., 722
 Trapp, Charles H., 1211
 Treleven, W. T., 291, 420
 Treuting, J. N., Jr., 1216
 Trevor, John M., 249
 Tripp, Guy E., 1506
 Trowbridge, Granville S., 1073†
 Trowlow, Howard, 806
 Tucker, G. E., 972, 1072†
 Tupper, C. A., 424
 Turk, J. E., 857
 Turner, Daniel L., 803
 Turner, W. A., 1024
 Tutthill, Job, 1024
 Tutwiler, E. M., Jr., 118
 Tyler, W. E., 334
 Tyler, W. T., 245, 1172, 1216*
 Tyson, I. T., 246, 469†
 Umshler, A. M., 760
 Upson, S. C., 471
 Uptegraff, W. D., 123
 Uptegrove, Daniel, 118*
 Urbat, C. F., 761
 Vance, W. H., 858, 1024
 Vanderlip, Frank A., 1027
 Van Deventer, John H., 422, 860
 Van Horn, C. W., 75, 204*
 Van Horn, R. W., 209
 Van Houten, Richard A., 1026
 Van Slyck, R. S., 1127
 Van Slyke, H. E., 653
 Van Sweringen, F. H., 1075
 Van Vliet, B. F., 1217
 Varney, Harlow A., 380, 472*
 Vaulain, S. M., 1120
 Vaughan, David L., 860
 Vawter, James, 1174
 Voight, A. E., 1173
 Vollmer, W. G., 1216, 1508†
 Von Blucher, L. F., 1266
 Von Sprecken, F., 120
 Vought, Charles S., 1026
 Wagner, V. B., 1264
 Wahoske, H. R., 75
 Wailes, S. I., 975
 Waldron, A. B., 164
 Waldron, H. A., 724
 Walker, H. S., 334
 Walker, R. C., 760
 Walker, William, 722
 Walker, W. K., 205
 Wall, W. O., 760
 Wallace, J. S., 915
 Wallace, M. A., 290
 Wallenberg, Marcus, 1027
 Walliser, George, 913
 Walsh, J. M., 1174
 Walter, J. W., 205
 Walter, P. S., 1509
 Walters, J. J., 248
 Ware, W. C., 164
 Waring, L. G., 294
 Warnecke, John G., 1074
 Warren, W. D., 1126, 1219
 Wassell, F. L., 1505*
 Wassum, W. J., 163
 Watkins, F. W., 1125
 Watson, E. L., 205
 Watson, James D., 1125†
 Watson, P. J., Jr., 1220
 Weaver, H. A., 245
 Webb, A. H., 1509
 Webb, G. H., 1174
 Weber, E. J., 1508
 Webster, H. E., 420
 Weed, Joseph, 75
 Wegner, A. C., 1218
 Weidner, O. A., 246
 Weigman, Ernest H., 472
 Weir, J. M., 420, 654†
 Weiss, Howard F., 808
 Wells, Emery, 1220
 Wells, J. R., 164
 Wells, W., 1024
 Welsh, M. A., 805
 Welter, J. N., 249
 Wemple, F. L., 75
 Wenner, H. C., 294
 Werne, J. A., 1024, 1218†
 Westbury, C. W., 291
 Westcott, G. H., 653, 805, 1127*
 Westinghouse, H. H., 380
 Weymouth, Frank M., 724*
 Whaley, A. R., 1023
 Wharton, Joseph, 123
 Wheeler, F. S., 1025
 Whelen, E. R., 1218
 Whitaker, V. E., 1218
 White, C. E., 422
 White, Edward J., 1125, 1172*
 White, H. T., 118, 1216
 White, J. A., 336, 760
 White, J. Lowell, 1265
 White, P. G., 470
 White, R. B., 1509
 White, R. C., 36, 75, 120†
 White, W. L., 75
 Whittenon, W. M., 204
 Whiting, Charles L., 1220
 Whitney, Harry Payne, 294
 Whitney, H. T., 1219
 Whitney, W. A., 653, 760
 Whittemore, Audenried, 337
 Wierman, Victor, 805
 Wight, C. T., 36
 Wilcox, D. E., 913, 1023
 Wildin, George W., 1126
 Wilkes, S. W., 205
 Williams, A. N., 75
 Williams, C. H., 294*
 Williams, C. P., 422†
 Williams, D. P., 163, 652†
 Williams, F., 1264
 Williams, F. F., 1072
 Williams, Irving, 378
 Williams, J. H., 1509
 Williams, J. W., 120
 Williams, Marshall, 1504
 Williams, S. D., 858
 Williams, T. J., Jr., 1074
 Williams, W. E., 75
 Williams, W. S., 761
 Willings, G. C., 1266
 Willis, J. W., 1218
 Wills, Ernest C., 119
 Wills, E. C., 1509
 Wilson, Amos, 378
 Wilson, F. H., 1125
 Wilson, Hugh M., 78*
 Wilson, L. F., 972, 1072†
 Wilson, Wins F., 164, 378†
 Winburn, F. E., 74
 Wing, W. S., 1264
 Wingquist, S., 1027
 Winkless, C. T., 858
 Winn, C. F., 1073
 Winslow, Carlisle P., 808
 Wise, A. J., 807
 Witherspoon, Paul, 722
 Withried, C., 1126
 Wolfe, Udolpho, 118
 Wolhaupter, B., 1505
 Wood, G. B., 1172
 Wood, P. O., 377, 419†
 Wood, W. H., 724
 Woodcock, E. D., 1172
 Woodin, W. H., 295
 Woodman, I. M., 291, 470†
 Woods, C. F., 205
 Woods, R. H., 1128
 Woodward, C. N., 1126
 Woodford, C. E., 722, 1216
 Word, F. L., 1024
 Worth, B. G., 250
 Worthington, A. C., 973
 Worthington, T. C., 857
 Wright, C. R., 420
 Wright, Frank C., 913
 Wright, J. D., 1220
 Wright, Orrville C., 121
 Wright, Paul A., 335, 1024

Wright, Thos. H., 35
 Wyllie, G. B., 470
 Yager, Louis, 205, 973
 Yantis, F. S., 653
 Yardley, C. F., 1126, 1219

Yardley, Farnham, 336
 Yarker, E. H., 858
 Yeaton, H. T., 1127
 Yeomans, George G., 1126
 Youman, J. D., 118

Young, Alexander, 1220
 Young, C. D., 1025, 1174*
 Young, G. W., 74
 Young, N. H., 1217
 Young, R. W., 39*

Younger, T. W., 722
 Zane, W. F., 205
 Zimmerman, L. C., 1127
 Zinsmaster, A. F., 975

OBITUARY

[* Indicates photograph and sketch. ‡ Indicates sketch only.]

Alden, John F., 422
 Anderson, John A., 762‡

Bell, James R., 248
 Bennett, Frederick S., 166
 Berdan, William, 166
 Berry, Thomas, 1259‡
 Bissell, William A., 206‡
 Block, W. T., 654‡
 Brady, James B., 860*, 1027, 1120
 Bridgman, John C., 1259‡
 Brinkerhoff, A. B., 164
 Britton, F. H., 370
 Brown, Arthur, 762‡
 Buchanan, Archibald, Jr., 292‡
 Bucklen, Herbert E., Sr., 121
 Burke, James, 858‡

Cahill, William R., 378
 Card, C. W., 121‡
 Clements, Judson C., 1313, 1501*
 Clifford, J. M., 248, 334
 Coughlin, Jack, 1259
 Creighton, George W., 1220‡, 1265
 Crittenden, Oliver H., 206, 248*, 420

Daab, Frederick C., 378*
 Dawes, Chester M., 859*
 Dean, Joel, 335
 Derickson, Thomas M., 1504‡
 De Rousee, O. J., 37

Dix, John W., 975
 Dooley, M. H., 335
 Dodd, William C., 473*, 724
 Duncan, C. R., 762

Fisk, George C., 808

Gentry, Thomas Wyatt, 77
 Griest, A. P., 206, 245
 Grieves, Edward W., 336‡

Hall, Charles Sumner, 1510
 Hannum, Ellis J., 122
 Harlan, R. J., 76
 Harrison, James P., 654
 Heath, John, 1074
 Hickey, John, 655‡
 Hill, George Henry, 250*
 Hooker, Harry C., 76
 Howe, John K., 725
 Hoyt, J. H., 654
 Hughes, Benjamin, J., 1220, 1265
 Hughes, Colonel Herbert, 166
 Hutchinson, Edward B., 1174
 Hutchison, S. A., 37

Jenkins, A. B., 39, 336
 Johnson, James M., 1259
 Johnson, W. O., 1266

Kalman, Arnold, 1174
 Katte, Walter, 421‡

Keegan, J. F., 471
 Kelly, R. C., 335
 Kendig, Roscoe B., 1074*
 King, Arthur, 249, 422

Lewis, E. C., 292, 421*, 857
 Long, Simon C., 723*

McAlpine, Alexander R., 123
 McBride, Walter J., 166*
 McDoel, Joseph F., 1025
 McDonald, D. J., 974
 Manchester, Albert E., 1025*
 Marquardt, Charles W., 378, 653
 Minton, W. D., 292
 Modisette, J. B., 378‡, 761
 Murray, Oscar G., 471, 655*

Nafis, A. T., 723

Patterson, Samuel S., 915
 Pheney, M. A., 1174
 Pomeroy, L. R., 1027*

Ramsey, C. C., 123*
 Ransome, Ernest L., 422
 Reed, Frederick E., 380‡
 Robinson, Alexander P., 380
 Robinson, John G., 421
 Rockwell, Fayette R., 859*, 972

Sargent, George H., 860
 Schoen, Charles T., 250‡
 Schoonmaker, Henry, 808
 Seymour, Manly T., 1074
 Sharp, H. W., 421
 Sheldon, William H., 1074
 Siems, Peter, 422
 Stebbins, Albert C., 472‡
 Strattan, George Woolley, 915

Thomas, Richard L., 166
 Thomson, Captain Willard, 858‡
 Thorne, Lansing S., 421‡
 Thornburgh, William, 206*
 Turner, Charles T., 121

Underwood, W. J., 37, 334

Van Mater, William A., 471

Waldron, Holman D., 807, 973
 Willard, F. B., 1266
 Walz, W. C., 723
 Waterhouse, R. F., 1174
 Weir, Henderson, 472, 764
 Willcutt, Joseph L., 378
 Wood, Elmer H., 762‡
 Wood, James R., 1025*, 1250

Yarnall, H. E., 723‡
 Young, Erastus, 807‡

INTERSTATE COMMERCE COMMISSION RULINGS

[* See Also General Index.]

Akron, Canton & Youngstown v. Baltimore & Ohio, 1070
 Baltimore Chamber of Commerce v. Baltimore & Ohio et al., 201.
 Board of Commerce, Lexington, Ky., v. Cincinnati, New Orleans & Texas Pacific, 1117
 Board of Trade of the City of Chicago v. Pere Marquette et al., 1117
 Chamber of Commerce of La Crosse, Wis. v. Great Lakes Transit Corporation et al., 1167
 Consumers' Company v. Minneapolis, St. Paul & Sault Ste. Marie et al., 968
 Cultra, J. L., and Myrtle Cultra, partners, trading as the Clay County Produce Company, v. Western Union Telegraph Company, 1209
 Du Pont, E. I., De Nemours Powder Company v. Philadelphia & Reading et al., 33
 Florida Growers' & Shippers League v. Alabama & Vicksburg et al., 969
 Ford Collieries Company et al. v. Bessemer & Lake Erie, et al., 72
 Green, R. H., et al. v. Alabama & Vicksburg, 968

Inland Navigation Company, Inc., v. Wabash et al., 969
 In re furnishing cars at carrier's convenience, 71
 In re proportional rates from points in Illinois, Indiana, Iowa, Michigan, Missouri and Wisconsin to Ohio river crossings, 968
 In re Southern Pacific's ownership of Atlantic Steamship Lines, 416
 La Crosse Shippers' Association, for Cargill Coal Company et al. v. Chicago, Milwaukee & St. Paul et al., 969
 Lehigh Portland Cement Company v. Baltimore & Ohio Southwestern, et al., 159
 Memphis Merchants Exchange et al. v. Illinois Central et al., 855
 Michigan Paper Mills Traffic Association et al. v. Alabama & Vicksburg et al., 288
 National Implement & Vehicle Association of the United States et al. v. Baltimore & Ohio et al., 72
 National Poultry, Butter and Egg Association v. Baltimore & Ohio Southwestern et al., 803
 New Orleans Joint Traffic Bureau, 33

New York Hay Exchange Company v. New York Central, 803
 Northern Potato Traffic Association v. Chicago & Alton et al., 1117
 Paducah Board of Trade et al. v. Illinois Central et al., 969
 Pierce Oil Corporation v. Missouri, Kansas & Texas et al., 968
 Railroad Commissioners of the State of Florida v. Florida East Coast, 243
 Richmond Chamber of Commerce v. Seaboard Air Line et al., 1117
 Scully, D. B., Syrup Company et al. v. Alabama Great Southern et al., 968
 Silk Association of America v. Pennsylvania Railroad et al., 1209
 Southern Rice Growers' Association et al. v. Texas & New Orleans et al., 467
 Traffic Bureau of Nashville v. Louisville & Nashville, 803
 Traffic Bureau of the Toledo Commerce Club et al. v. Cincinnati Hamilton & Dayton et al., 1021
 Utah-Idaho Millers & Grain Dealers' Association v. Denver & Rio Grande et al., 243
 Wichita Wholesale Furniture Company v. Atchison, Topeka & Santa Fe et al., 1117

RAILWAY CONSTRUCTION

Alabama Great Southern, 725
 Alabama Roads (Electric), 167
 Amargosa Valley, 1212
 Americus & Atlantic, 473
 Americus, Hawkinsville & Eastern, 473
 Appalachian Railway, 167
 Arkansas Harbor Terminal, 251
 Ashland-Greenup Railway (Electric), 861
 Atchison, Topeka & Santa Fe, 40, 1212, 1260, 1507
 Atlanta & Anderson (Electric), 295
 Atlanta & West Point, 473, 725
 Atlanta, Birmingham & Atlantic, 1171
 Atlantic & Northwestern, 725
 Baltimore & Ohio, 167, 337, 1212
 Baltimore (Md.) Roads, 295
 Bartlett-Western, 725
 Barton County & Santa Fe, 425, 1212
 Belle Fourche & Northwestern, 251
 Bibb Belt Railway, 657
 Birmingham Southern, 725
 Black Mountain & Clinchport, 167
 Boise, Twin Falls & Nevada, 473
 Boston & Maine, 382
 Bryan & Central Texas, 251, 725
 Buffalo, Rochester & Pittsburgh, 79, 918
 Burlington, South Chicago Terminal Railroad, 295, 337

Canadian Northern Quebec, 251
 Canadian Pacific, 976
 Charleston-Gauley (Electric), 976
 Charlotte, Monroe & Columbia, 79
 Chicago & Alton, 124
 Chicago & Illinois Midland, 657
 Chicago & North Western, 918, 1260, 1507
 Chicago, Burlington & Quincy, 337, 765, 808, 1260
 Chicago, Fox Lake & Northern (Electric), 1260
 Chicago, Milwaukee & St. Paul, 209, 425, 1260
 Chicago, Springfield & Cairo, 1121
 Chicago Union Station Company, 1028
 Christie & Eastern, 295, 337
 City of Prineville, 861
 Clear Lake Railroad, 1212
 Cleveland, Cincinnati, Chicago & St. Louis, 1028
 Clinton & Oklahoma, 337
 Colorado, Kansas & Oklahoma, 295
 Cumberland Valley, 976
 Delaware Roads, 1171
 Dickinson & Northwestern, 918, 976
 Du Quoin, Christopher & Eastern (Electric) 918
 Eagle Pass & Gulf, 124
 Elk Fork, 1028
 El Paso & Southwestern, 1076
 Enid & Northwestern, 425

Erie Railroad, 918
 Essex Terminal Railway, 861
 Ettrick & Northern, 1507
 Evansville & Indianapolis, 725
 Export Railway, 765

Florida Roads, 337, 918
 Florida Roads (Electric), 167, 209
 Franklin County Traction, 473

Garyville Northern, 1171
 Georgia Roads, 209, 765
 Government Road, 1260
 Great Northern, 295, 473, 1028, 1260
 Green Bay & Eastern, 808
 Gulf, Mobile & Northern, 425, 473
 Gulf Ports Terminal Railroad, 40
 Gulf, Sabine & Red River, 1171

Hampton & Langley Field (Electric), 295
 Harney Valley Railroad, 251
 Henderson & Wilson, 473
 Hillsborough-Pinellas Interurban, 167
 Houston, Richmond & Western, 167
 Howard Terminal, 1171
 Hudson & Manhattan (Electric), 657
 Illinois Central, 209, 918, 976, 1076, 1121, 1260
 Illinois Terminal Railroad, 1260

RAILWAY CONSTRUCTION—Continued

International Railway (Electric), 295
Interprovincial & James Bay, 79

Jefferson & North Western, 725

Kansas & Oklahoma Southern, 251
Kansas City, Mexico & Orient, 1076
Kentucky Roads, 124
Kentucky South Eastern, 337
Kewanee & Eastern, 209
Kirby Planing Mill Company, 295
Knoxville Interurban, 425
Knoxville, Sevierville & Eastern, 295
Kosciusko & Southwestern, 765

Lake Shore Railroad, 765

Lehigh & New England, 657, 976
Los Angeles & Salt Lake, 295, 1212
Louisiana & Pine Bluff, 765
Louisville & Nashville, 79

Manganese Steel Rail Co., 77
Manning, Mandan & Freda, 808
Maryland-Pennsylvania Roads (Electric), 209
Meridian & Bigbee River, 425
Metropolis Belt & Terminal Company, 425
Mexican Roads, 1121
Miami Mineral Belt, 1507
Midland & North Western, 337
Miltenberg & Southeastern, 79, 251
Milwaukee Western (Electric), 657
Minneapolis, St. Paul & Sault Ste. Marie, 1260
Mississippi & Western, 338, 861
Mississippi Roads, 296
Missouri Pacific, 382
Mobile, Volanta & Pensacola, 124
Monongahela Valley Traction, 209

Nashville, Chattanooga & St. Louis, 124
National Railways of Mexico, 40
Nevada Railroads, 1076
New Orleans & Lower Coast, 79
New Orleans, Ft. Jackson & Grand Isle, 79
New York Central, 209, 382, 1028, 1076, 1121
New York, Chicago & St. Louis, 1260

North Bend Mill & Lumber Company's Road, 657

North Carolina Roads, 338, 861
North Georgia Mineral, 861
North Texas & Santa Fe, 40
Northern Pacific, 473, 808

Ocean City & Fenwick Island (Electric), 976
Oklahoma Union (Electric), 657
Oregon Electric, 918
Oregon-Washington Railroad & Navigation Co., 79, 1028
Orleans-Kenner Electric, 808
Osage County & Santa Fe, 40, 338, 425
Ozark & Arkansas Midland, 251
Ozark Valley, 251

Panhandle & Western, 808
Peavy-Wilson (Lumber Line), 167
Pennsylvania Lines West, 473, 765, 918
Pennsylvania Railroad, 296, 765, 1171, 1507
Philadelphia & Reading, 976
Pigeon River Railroad, 296
Pine Bluff & Northern, 251
Port Angeles & Grays Harbor, 296
Prescott & Phoenix Short Line, 1212, 1507
Prineville & Northern, 167

Red River & Gulf, 765
Ringling & Oil Fields, 657
Roby & Northern, 79
Rome & Northern, 251
Roscoe, Snyder & Pacific, 657

St. Louis-San Francisco, 1507
Salt Lake & Utah, 1028
San Antonio & Aransas Pass, 658
San Antonio, Uvalde & Gulf, 1171
San Diego & Arizona, 474
Sand Springs, 658, 1507
Savannah River Terminal, 209
Seaboard Air Line, 1171
Shaw & Southwestern, 725

Ship Channel Transportation Company (Electric), 808
South Carolina Road (Electric), 338
South Dakota Short Line, 918
South Florida Interurban, 1028
South Plains & Santa Fe, 40
Southeastern Railway of Huntsville, 40
Southern New England, 252
Southern Pacific, 1507
Southern Railway, 382, 725, 765, 808, 861, 976, 1076, 1121
Southwest Missouri, 252, 1212
Spokane, Portland & Seattle, 725
Springfield & Carbondale, 765
Stanley Railway, 252

Tampa Southern, 296, 976
Tampico & Panuco Valley, 765
Temiskaming & Northern Ontario, 808
Texas Airline Interurban, 766
Texas Electric & Power Company, 1212
Texas Roads, 725, 1028
Texas Roads (Electric), 976, 1121
Texas State Railroad, 425
Trans-Mississippi Terminal, 167
Tucson, Phoenix & Tidewater, 1171

Union Pacific, 124, 658, 1076
Utah Roads, 766,

Virginia Iron, Coal & Coke Company, 296
Virginian Railway, 1121

Watauga & Yadkin River, 338
Wayne-Hardin, 425
Western Maryland, 209
Western Pacific, 1076, 1507
Westfield River (Electric), 79
West Virginia Roads, 209
Wheeling Coal Railroad, 296
Wilkes-Barre & Hazleton (Electric), 79
Winchester & Western, 209, 252

Yazoo & Mississippi Valley, 1171

FINANCIAL NEWS

Alabama & Mississippi, 426
Alabama Great Southern, 474
Arkansas Harbor Terminal, 252
Augusta Southern, 766

Baltimore & Ohio, 1260, 1507
Baltimore & Ohio Southwestern, 1212
Boston & Maine, 80, 168, 210, 338, 382, 658, 766, 862, 918, 1121

Canadian Pacific, 766, 862, 976
Cape May, Delaware Bay & Sewell's Point, 1260
Carthage & Copenhagen, 1507
Catskill Mountain, 1028
Chesapeake & Ohio, 1121
Chicago & Eastern Illinois, 1121, 1507
Chicago & North Western, 80, 124, 726
Chicago Great Western, 426
Chicago, Milwaukee & St. Paul, 210, 862
Chicago, Rock Island & Pacific, 80, 168, 210, 252, 426, 474, 726, 862, 918, 1076, 1260, 1507

Cincinnati, Findlay & Fort Wayne, 726
Cincinnati, Hamilton & Dayton, 918, 1260
Cleveland, Cincinnati, Chicago & St. Louis, 80, 1171

Coal & Coke Railway, 338
Colorado & Midland, 474, 862, 918
Connecticut River, 918

Delaware & Hudson, 862, 976, 1028, 1260, 1507
Delaware, Lackawanna & Western, 210, 1171
Denver & Rio Grande, 124, 426, 1121, 1507
Detroit, Toledo & Ironton, 1171
Erie, 168, 252, 426, 474, 809, 862
Evansville & Indianapolis, 426

Georgia & Florida, 764
Gulf, Florida & Alabama, 1076
Gulf, Mobile & Northern, 168

Hocking Valley, 1212
Illinois Central, 1076
Indian Creek Valley, 1171
Interborough Rapid Transit, 1171
International & Great Northern, 1171

Kansas City, Mexico & Orient, 862
Kansas City Northwestern, 426, 1212
Keokuk & Des Moines, 918

Lehigh Valley, 726, 1260
Long Island, 210, 658, 726

Marshall & East Texas, 210, 1028
Mississippi Valley, 976
Missouri & North Arkansas, 296
Missouri, Kansas & Texas, 40, 296, 338, 474, 1028, 1212
Missouri Pacific, 80, 252, 382, 474, 1076, 1212
Morris & Essex, 1171

Nashville, Chattanooga & St. Louis, 124, 338
Nevada Short Line, 1028
New Orleans & Northeastern, 40, 296, 426
New Orleans, Mobile & Chicago, 168
New Orleans, Texas & Mexico, 426
New York Central, 382, 426, 658, 809, 976, 1212
New York, Chicago & St. Louis, 726
New York, New Haven & Hartford, 252, 426, 726, 809, 976, 1028, 1121
Norfolk & Western, 168
Norfolk Southern, 976, 1028

Pascagoula Northern, 426
Pennsylvania-Detroit, 426
Pennsylvania Railroad, 124, 210, 426, 474, 764, 1260, 1507
Pere Marquette, 726, 766, 809
Philadelphia & Reading, 1260
Pittsburgh, Cincinnati, Chicago & St. Louis, 40, 809, 1507
Pittsburgh, Fort Wayne & Chicago, 1076
Pittsburgh, Shawmut & Northern, 1212

Quanah, Acme & Pacific, 124
Rutland Railroad, 474

St. Louis & Hannibal, 1212
Southern Pacific, 80, 296
Southern Railway, 40, 80, 296, 338, 382

Tennessee Central, 40, 338, 658, 809, 1028
Terminal Railroad Association of St. Louis, 1507
Texas & Pacific, 726, 918
Tidewater & Western, 1076
Tidewater Southern, 338

Union Pacific, 252, 1121

Valdosta, Moultrie & Western, 124, 168
Virginian Railway, 210

Wabash, 40
Wabash-Pittsburgh Terminal, 168, 766
Western & Atlantic, 338
Western Maryland, 210, 296, 976, 1212
Western Pacific, 338
Wheeling & Lake Erie, 80, 976
Wichita Falls & Northwestern, 1212

FOREIGN RAILWAY NOTES

Africa, 140, 716
Asia Minor, 14
Australia, 40, 60, 66, 140, 364, 741, 1400
Austria, 191, 658, 1419

Bolivia, 474
Brazil, 296

Chile, 296, 809, 935
China, 80, 196, 344, 410, 644, 765, 847, 862, 1097, 1119

Chosen, 168
Colombia, 1040

Costa Rica, 896, 916

Denmark, 1003, 1240

Ecuador, 628, 1094

England, 6, 40, 48, 60, 80, 109, 124, 144, 148, 180, 192, 221, 249, 314, 320, 348, 400, 426, 616, 658, 697, 763, 766, 838, 904, 906, 916, 944, 988, 1017, 1076, 1088, 1158, 1170, 1171, 1191, 1212, 1444

Finland, 272, 338

France, 192, 261, 293, 296, 658, 862, 1044, 1144

German East Africa, 776

Germany, 28, 55, 66, 165, 307, 714, 793, 1004, 1017, 1062, 1230, 1232, 1482

India, 147, 293, 721, 773

Ireland, 80, 106, 144, 1180

Italy, 750, 1247, 1475

Japan, 124, 382, 808

Madagascar, 252

Malay States, 1191

Manchuria, 645, 976, 1062

New Zealand, 474, 844

Norway, 703

Panama, 1106, 1111

Peru, 744, 1192

Prussia, 766, 1009

Russia, 28, 168, 252, 253, 422, 744, 791, 918, 932, 960, 1011, 1111, 1119, 1121, 1503

Siam, 363, 1156

South Africa, 184

Spain, 86, 382, 390, 1044

Sweden, 38, 63, 272, 338, 998

Switzerland, 23, 134, 226, 976, 1058, 1246

